BBA

Biochimica et Biophysica Acta

author and subject indexes 1991

volumes 1056-1097

ISSN 0006-3002

ELSEVIER

PUBLICATION SCHEDULE FOR 1991

BBA is published according to a volume-numbering scheme that embraces all sections of the journal.
Full subscription: 42 volumes plus Cumulative Index 1990.

	BIO-ENERGETICS including Reviews on Bioenergetics 5 volumes	BIO-MEMBRANES 11 volumes[a]	GENERAL SUBJECTS 3 volumes	PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY 5 volumes	LIPIDS AND LIPID METABOLISM 6 volumes	GENE STRUCTURE AND EXPRESSION 4 volumes	MOLECULAR CELL RESEARCH 5 volumes	MOLECULAR BASIS OF DISEASE 2 volumes	REVIEW SECTIONS
Jan.	1056-1	1061-1	1073-1	1076-1	1081-1	1087-1	1091-1	1096-1	REVIEWS ON BIOMEMBRANES
Feb.	1056-2	1061-2		1076-2	1081-2	1087-2	1091-2		
Mar.	1056-3	1062-1	1073-2	1076-3	1081-3		1091-3	1096-2	1071-1
April	1057-1	1062-2		1077-1	1082-1	1087-3	1092-1		1071-2
May	1057-2	1063-1	1073-3	1077-2	1082-2	1088-1	1092-2	1096-3	1071-3
June	1057-3	1063-2		1077-3	1082-3	1088-2	1092-3		1071-4
July	1058-1	1064-1	1074-1	1078-1	1083-1	1088-3	1093-1	1096-4	
Aug.	1058-2	1064-2		1078-2	1083-2	1089-1	1093-2		
Sept.	1058-3	1065-1	1074-2	1078-3	1083-3	1089-2	1093-3	1097-1	REVIEWS ON CANCER
Oct.	1059-1	1065-2		1079-1	1084-1	1089-3	1094-1		
Nov.	1059-2	1066-1	1074-3	1079-2	1084-2	1090-1	1094-2	1097-2	1072-1
Dec.	1059-3	1066-2		1079-3	1084-3	1090-2	1094-3		1072-2
	1060-1	1067-1	1075-1	1080-1	1085-1	1090-3	1095-1	1097-3	1072-3
	1060-2	1067-2		1080-2	1085-2		1095-2		
	1060-3	1068-1	1075-2	1080-3	1085-3		1095-3	1097-4	
		1068-2			1086-1				
		1069-1	1075-3		1086-2				
		1069-2			1086-3				
		1070-1							
		1070-2							

[a] This includes BBA Reviews on Biomembranes, Vol. 1071.

INFORMATION FOR CONTRIBUTORS TO BIOCHIMICA ET BIOPHYSICA ACTA

The 1991 edition of this booklet, offering detailed guidance to authors, is available free of charge from the BBA Editorial Secretariat, P.O. Box 1345, 1000 BH Amsterdam, The Netherlands. It is also published as Biochim. Biophys. Acta 1075 (1991) 267–280. This also appears at the front of the first 1991 issue of every other BBA section; a summary is given on the inside back cover of each issue, including this Index.

BBA

Biochimica et Biophysica Acta

Indexes 1991

BBA
Biochimica et Biophysica Acta

1991

MANAGING EDITORS

P. Cohen (Dundee)
P.L. Dutton (Philadelphia, PA)
Y. Kagawa (Tochigi)
E.P. Kennedy (Boston, MA)
G.K. Radda (Oxford) (Chairman)
K. van Dam (Amsterdam)
L.L.M. van Deenen (Utrecht)
P.C. van der Vliet (Utrecht)

HONORARY MANAGING EDITOR

E.C. Slater (Southampton)

ASSOCIATE MANAGING EDITORS

G. Brown (Oxford)
D.J. Waxman (Boston, MA)

EDITORS

H. Aiba (Tsukuba)
B. Andersson (Stockholm)
J. Barber (London)
M.T. Bayliss (London)
R.J. Beynon (Liverpool)
I. Bihler (Winnipeg)
I. Björkhem (Huddinge)
P. Borst (Amsterdam)
J. Bremer (Oslo)
Z.I. Cabantchik (Jerusalem)
R. Cammack (London)
I.D. Campbell (Oxford)
E. Carafoli (Zürich)
G. Cevc (München)
C.M. Cohen (Boston, MA)
R.A. Coleman (Durham, NC)
C. Crane-Robinson (Portsmouth)
B. de Kruijff (Utrecht)
J.J.H.H.M. de Pont (Nijmegen)
D. DerVartanian (Athens, GA)
B. Deuticke (Aachen)
B. Diner (Wilmington, DE)
W. Doerfler (Köln)
K.T. Douglas (Manchester)
C.P. Downes (Dundee)
S. Ebashi (Tokyo)
J. Fain (Memphis, TN)
M. Ferguson (Dundee)
S.J. Ferguson (Oxford)
J.T. Gallagher (Manchester)
W.B. Gratzer (London)
F. Grosveld (London)
A.K. Hajra (Ann Arbor, MI)
M. Hamberg (Stockholm)
D.A. Harris (Oxford)
J.L. Harwood (Cardiff)
E.J.M. Helmreich (Würzburg)
F. Hofmann (München)
D. Holten (St. Louis, MO)
M.D. Houslay (Glasgow)
C.-h. Huang (Charlottesville, VA)
R.C. Hughes (London)
A. Ikegami (Yokohama)
M. Iwabuchi (Kyoto)
J.B. Jackson (Birmingham)
M. Jennings (Galveston, TX)
P. Jollès (Paris)
Y. Kan (San Francisco, CA)
J. Kay (Cardiff)
Y. Kaziro (Palo Alto, CA)
R. Kinne (Dortmund)
C. Klee (Bethesda, MD)
W. Lands (Chicago, IL)
A.G. Lee (Southampton)
I.G. Macara (Burlington, VT)
F. Maley (Albany, NY)
R. Malkin (Berkeley, CA)
D. Marsh (Göttingen)
A.N. Martonosi (Syracuse, NY)
V. Massey (Ann Arbor, MI)
R.J. Mayer (Nottingham)
H. Morii (Osaka)
D.J. Morré (West Lafayette, IN)
G.L. Nelsestuen (St. Paul, MN)
Y. Nozawa (Gifu)
C.N. Pace (College Station, TX)
R.C. Pace-Asciak (Toronto)
M.C. Phillips (Philadelphia, PA)
P. Pilch (Boston, MA)
L.A. Pinna (Padua)
P.G.W. Plagemann (Minneapolis, MN)
R. Prince (Annandale, NJ)
P.J. Randle (Oxford)
J. Riordan (Boston, MA)
I.A. Rose (Philadelphia, PA)
J.-M. Saudubray (Paris)
A.M. Scanu (Chicago, IL)
G.L. Scherphof (Groningen)
C.W. Schmid (Davis, CA)
W.J. Schneider (Edmonton)
J. Seelig (Basel)
G.G. Shipley (Boston, MA)
D. Shugar (Warsaw)
H. Sies (Düsseldorf)
J.R. Silvius (Montreal)
M. Sinensky (Denver, CO)
F. Snyder (Oak Ridge, TN)
H.D. Soling (Göttingen)
M.J. Spiro (Boston, MA)
K. Tada (Sendai)
J.M. Tager (Bari)
K.F. Tipton (Dublin)
I.P. Trayer (Birmingham)
I. Trowbridge (San Diego, CA)
C.L. Tsou (Beijing)
D.E. Vance (Edmonton)
H. van den Bosch (Utrecht)
J. Vanderkooi (Philadelphia, PA)
L.M.G. van Golde (Utrecht)
H.J. van Gorkom (Leiden)
T. Vänngård (Gothenburg)
M. Waite (Winston-Salem, NC)
A. Watts (Oxford)
C. Weissman (Zürich)
T.J. Wheeler (Louisville, KY)
R.J.P. Williams (Oxford)
J.R. Williamson (Philadelphia, PA)
R. Williamson (London)
L. Wojtczak (Warsaw)
C.A. Wraight (Urbana, IL)
S. Yeaman (Newcastle upon Tyne)
C. Yocum (Ann Arbor, MI)
R.F.A. Zwaal (Maastricht)

BBA

Biochimica et Biophysica Acta

author and subject indexes 1991 volumes 1056-1097

Managing Editors: P. Cohen, K. van Dam,
L.L.M. van Deenen, P.L. Dutton, Y. Kagawa, E.P. Kennedy,
G.K. Radda (Chairman) and P.C. van der Vliet

Associate Managing Editors: G. Brown and D.J. Waxman

Honorary Managing Editor: E.C. Slater

Managing Editors for Reviews on Bioenergetics:
P.L. Dutton and M. Wikström

ELSEVIER SCIENCE PUBLISHERS B.V.
AMSTERDAM – LONDON – NEW YORK – TOKYO

PUBLICATION SCHEDULE FOR 1991

BBA is published according to a volume-numbering scheme that embraces all sections of the journal.
Full subscription: 42 volumes plus Cumulative Index 1990.

	BIO-ENERGETICS including Reviews on Bioenergetics 5 volumes	BIO-MEMBRANES 11 volumes[a]	GENERAL SUBJECTS 3 volumes	PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY 5 volumes	LIPIDS AND LIPID METABOLISM 6 volumes	GENE STRUCTURE AND EXPRESSION 4 volumes	MOLECULAR CELL RESEARCH 5 volumes	MOLECULAR BASIS OF DISEASE 2 volumes	REVIEW SECTIONS
Jan.	1056-1	1061-1	1073-1	1076-1	1081-1	1087-1	1091-1	1096-1	REVIEWS ON BIOMEMBRANES
Feb.	1056-2	1061-2		1076-2	1081-2	1087-2	1091-2		
Mar.	1056-3	1062-1	1073-2	1076-3	1081-3	1087-3	1091-3	1096-2	1071-1
April	1057-1	1062-2		1077-1	1082-1		1092-1		1071-2
May	1057-2	1063-1	1073-3	1077-2	1082-2	1088-1	1092-2	1096-3	1071-3
June	1057-3	1063-2		1077-3	1082-3	1088-2	1092-3		1071-4
July	1058-1	1064-1	1074-1	1078-1	1083-1	1088-3	1093-1	1096-4	
Aug.	1058-2	1064-2		1078-2	1083-2	1089-1	1093-2		REVIEWS ON CANCER
Sept.	1058-3	1065-1	1074-2	1078-3	1083-3	1089-2	1093-3	1097-1	
Oct.	1059-1	1065-2		1079-1	1084-1	1089-3	1094-1		1072-1
Nov.	1059-2	1066-1	1074-3	1079-2	1084-2	1090-1	1094-2	1097-2	1072-2
Dec.	1059-3	1066-2		1079-3	1084-3	1090-2	1094-3	1097-3	1072-3
	1060-1	1067-1	1075-1	1080-1	1085-1	1090-3	1095-1	1097-4	
	1060-2	1067-2		1080-2	1085-2		1095-2		
	1060-3	1068-1	1075-2	1080-3	1085-3		1095-3		
		1068-2			1086-1				
		1069-1	1075-3		1086-2				
		1069-2			1086-3				
		1070-1							
		1070-2							

[a] This includes BBA Reviews on Biomembranes, Vol. 1071.

© 1992, Elsevier Science Publishers B.V. All rights reserved

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the Publisher, Elsevier Science Publishers B.V., Copyright & Permissions Dept., P.O. Box 521, 1000 AM Amsterdam, The Netherlands.

Printed in The Netherlands

This Index is printed on acid-free paper

CONTENTS

Introduction vii

Author Index 1

Subject Index 95

Review Sections 291

Introduction

For the Subject Index, up to six key words (or short phrases) are selected for each article; these are printed together, and each is selected in turn to form an index entry. Important factors of each investigation are selected as key words; general terms such as enzyme, rat, spectroscopy, etc. will not be found as separate entries. However, such words, together with appropriate entries for source(s) of materials or for method(s) used, may be found in parentheses at the end of a group of key words. These words are sub-key words and are intended to provide useful supplementary information; they do not, however, constitute sufficiently precise indexing terms to be used as index entries.

Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the Publication Schedule, which can be found in the preliminaries and on the inside front cover of this Index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews published in the special review sections (Biomembranes and Cancer) are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index.

The Editors and Publishers welcome any comments on the usefulness of this Index, together with suggestions for improvements.

Author Index
Volumes 1056–1097
1991

A

Aalkjær, C., see Juul, B. (1067) 201
Aalkjær, C., see Plesner, L. (1067) 191
Aarden, L.A., see Yap, S.H. (1091) 405
Aarhus, R., see Walseth, T.F. (1094) 113
Aartsma, T.J., see Deinum, G. (1060) 125
Aartsma, T.J., see Kleinherenbrink, F.A.M. (1057) 346
Aaviksaar, A., see Schellenberger, V. (1078) 1
Abbondandolo, A., see Fronza, G. (1087) 330
Abbondanza, A., see Bolognesi, A. (1087) 293
Abbruzzese, A., Hanauske-Abel, H.M., Park, M.H., Henke, S. and Folk, J.E.
The active site of deoxyhypusyl hydroxylase: use of catecholpeptides and their component chelator and peptide moieties as molecular probes (1077) 159
Abe, A., see Liao, T.-H. (1079) 335
Abe, K., see Nishiura, T. (1077) 346
Abe, S., Kochi, H. and Hiraiwa, K.
Purification and immunological characterization of a new form of γ-glutamyltransferase of human semen (1077) 259
Abe, T., see Yanagisawa, H. (1088) 380
Abraham, W. and Downing, D.T.
Deuterium NMR investigation of polymorphism in stratum corneum lipids (1068) 189
Abrahamson, J.K., see Bergstrom, D.E. (1061) 95
Absolom, D.R., see Cockshutt, A.M. (1085) 248
Abuelgassim, A.O., see Khoja, S.M. (1074) 357
Abuelgassim, A.O., see Khoja, S.M. (1076) 61
Aceto, A., see Di Ilio, C. (1077) 141
Acosta, M., Casas, J.L., Arnao, M.B. and Sabater, F.
1-Aminocyclopropane-1-carboxylic acid as a substrate of peroxidase: conditions for oxygen consumption, hydroperoxide generation and ethylene production (1077) 273
Adachi, K., Kim, J. and Shibayama, N.
Polymerization and solubility of Ni(II)-Fe(II) Hybrid Hb S (1079) 268
Adamova, I.Y., see Fuki, I.V. (1086) 237
Adamowicz, L., see Saint-Martin, H. (1080) 205
Adams, D.J., see Dickinson, K. (1073) 177
Adams, J.B.
Enzymic synthesis of steroid sulphates XVII. On the structure of bovine estrogen sulphotransferase (1076) 282
Adams, J.M. and Cory, S.
Transgenic models for haemopoietic malignancies (1072) 9
Adams, V., see Bücheler, K. (1056) 233
Adams, V., see Kottke, M. (1061) 215
Addison, R.
GTP is required for the integration of a fragment of the *Neurospora crassa* H^+-ATPase into homologous microsomal vesicles (1065) 130
Adlercreutz, H., see Garreau, B. (1094) 339
Adolf, G.R., Frühbeis, B., Hauptmann, R., Kalsner, I., Maurer-Fogy, I., Ostermann, E., Patzelt, E., Schwendenwein, R., Sommergruber, W. and Zöphel, A.
Human interferon ω1: isolation of the gene, expression in Chinese hamster ovary cells and characterization of the recombinant protein (1089) 167
Adolf, G.R., see Hiebl-Dirschmied, C.M. (1065) 195
Aepfelbacher, M., Hrboticky, N., Lux, I. and Weber, P.C.
Cholesterol modulates PAF-stimulated Ca^{2+}-mobilization in monocytic U937 cells (1074) 125
Aerts, J.M.F.G., see Van Weely, S. (1096) 301
Agarwal, S.K., see Das, B.K. (1076) 343
Agawa, Y., see Kato, T. (1063) 191
Agius, L. and Peak, M.
Interactions of okadaic acid with insulin action in hepatocytes: role of protein phosphatases in insulin action (1095) 243
Agius, L., see Emmison, N. (1083) 147
Agnani, G., see Bard, J.M. (1082) 170
Agsteribbe, E., see Taanman, J.-W. (1089) 283
Aguilar, M.R., Cárdenas, J. and Fernández, E.
Regulation of molybdenum cofactor species in the green alga *Chlamydomonas reinhardtii* (1073) 463
Aharonovitz, O., see Livne, A.A. (1068) 161
Ahearn, G.A., see Balon, L.M. (1067) 123
Ahkong, Q.F., see Song, L. (1065) 54
Ahmad, H., see Singhal, S.S. (1079) 285
Ahmad, S. and Gupta, R.S.
Cloning of a Chinese hamster protein homologous to the mouse t-complex protein TCP-1: structural similarity to the ubiquitous 'chaperonin' family of heat-shock proteins (1087) 253
Ahmad, S., Singh, B. and Gupta, R.S.
Nucleotide sequences of three different isoforms of β-tubulin cDNA from Chinese hamster ovary cells (1090) 252
Ahmad, S., see Meyers, D.M. (1075) 195
Aho, S. and Paloheimo, M.
The conserved terminal region of *Trichoderma reesei* cellulases forms a strong antigenic epitope for polyclonal antibodies (1087) 137
Aikawa, M., see Verma, J.N. (1066) 229
Ailhaud, G., see Catalioto, R.-M. (1091) 364
Ainaga, M.J., see Portolés, M.T. (1092) 1
Ajandouz, E.H., see Desseaux, V. (1080) 237
Ajisaka, K., see Takayanagi, T. (1078) 404
Akabori, K., see Nagatsuka, T. (1057) 223
Akaike, T., see Maruo, K. (1074) 62
Akamatsu, Y., see Hanada, K. (1086) 151
Akera, T., see Ishizuka, N. (1069) 259
Akera, T., see Nishimura, C. (1078) 171
Åkerman, K., Karkola, K. and Kajander, O.
Methionine adenosyltransferase activity in cultured cells and in human tissues (1097) 140
Åkerman, K.E.O., see Jansson, C.C. (1095) 255
Åkesson, B., see Melin, T. (1075) 259
Akimaru, J., see Nishiyama, K.-i. (1065) 89
Akino, T., see Kuroki, Y. (1086) 185
Akino, T., see Ogasawara, Y. (1083) 252
Akiyama, K., see Seki, S. (1079) 57
Akiyama, S.-i., see Ichikawa, M. (1073) 309
Aktories, K., see Habermann, B. (1077) 253
Al-Hamidi, A.A.A. and Bailey, G.S.
Purification of prokallikrein from bovine pancreas (1075) 88
Al-Hassan, J.M., see Summers, B. (1091) 329
Al-Sieni, A.I.I., see Brindley, D.N. (1085) 119
Alamillo, J.M., Cárdenas, J. and Pineda, M.
Purification and molecular properties of urate oxidase from *Chlamydomonas reinhardtii* (1076) 203
Alava, M.A., see Iturralde, M. (1086) 81
Albano, E., Bellomo, G., Parola, M., Carini, R. and Dianzani, M.U.
Stimulation of lipid peroxidation increases the intracellular calcium content of isolated hepatocytes (1091) 310
Alberghina, L., see Forlani, N. (1089) 47
Alberghina, L., see Frascotti, G. (1089) 206
Alberghina, L., see Morello, L. (1092) 397
Albertsson, P.-Å., see Svensson, P. (1060) 45
Albitz, R., Droogmans, G. and Nilius, B.
The conductance of single cardiac sodium channels from guinea pig depends on the intracellular sodium concentration (1068) 254
Alcain, F.J., Buron, M.I., Villalba, J.M. and Navas, P.
Ascorbate is regenerated by HL-60 cells through the transplasmalemma redox system (1073) 380
Alcántara-Hernández, R., see Robles-Flores, M. (1094) 77

Alcántara, R., López-Corcuera, B. and Aragón, C.
Group-selective reagent modification of the sodium- and chloride-coupled glycine transporter under native and reconstituted conditions (1067) 64
Alcolado, J.C., see Li, S.-R. (1097) 293
Alder, G.M., Arnold, W.M., Bashford, C.L., Drake, A.F., Pasternak, C.A. and Zimmermann, U.
Divalent cation-sensitive pores formed by natural and synthetic melittin and by Triton X-100 (1061) 111
Alegria, G. and Dutton, P.L.
I. Langmuir-Blodgett monolayer films of bacterial photosynthetic membranes and isolated reaction centers: preparation, spectrophotometric and electrochemical characterization (1057) 239
Alegria, G. and Dutton, P.L.
II. Langmuir-Blodgett monolayer films of the *Rhodopseudomonas viridis* reaction center: determination of the order of the hemes in the cytochrome *c* subunit (1057) 258
Aleporou-Marinou, V., see Sourlingas, T.G. (1092) 298
Alessandri, J.-M., Guesnet, P., Arfi, T.S. and Durand, G.
Changes in fatty acid composition during cell differentiation in the small intestine of suckling piglets (1086) 340
Alexandre, A., see Doni, M.G. (1094) 323
Alexandre, A., see Ruzzene, M. (1094) 121
Alexandre, A., see Zoccarato, F. (1092) 72
Alfassi, Z.B., see Weinstein, M. (1076) 173
Ali, A., see Hasan, R. (1073) 509
Ali, R., see Hasan, R. (1073) 509
Aliau, S., Tabacik, C., Aliau, S.-P. and Descomps, B.
Synthesis of nuclear lipids in L_2C leukemic lymphocytes (1085) 350
Aliau, S.-P., see Aliau, S. (1085) 350
Alkonyi, I., see Kispal, G. (1085) 217
Alkonyi, I., see Sumegi, B. (1081) 121
Allegra, P., see Caiafa, P. (1090) 38
Allen, A.K., Ellis, J. and Rivett, D.E.
The presence of glycoproteins in the cell membrane complex of a variety of keratin fibres (1074) 331
Allen, D.W., Newman, L.M. and Okazaki, I.J.
Inhibition of arachidonic acid incorporation into erythrocyte phospholipids by peracetic acid and other peroxides. Role of arachidonoyl-CoA : 1-palmitoyl-*sn*-glycero-3-phosphocholine acyl transferase (1081) 267
Allen, M.T., Lynch, M., Lagos, A., Redmond, R.W. and Kochevar, I.E.
A wavelength dependent mechanism for rose bengal-sensitized photoinhibition of red cell acetylcholinesterase (1075) 42
Allen, R.L., see Rogers, H.J. (1089) 411
Allen, S., see Tran, T.V. (1059) 265
Allen, T.M. and Hansen, C.
Pharmacokinetics of stealth versus conventional liposomes: effect of dose (1068) 133
Allen, T.M., Austin, G.A., Chonn, A., Lin, L. and Lee, K.C.
Uptake of liposomes by cultured mouse bone marrow macrophages: influence of liposome composition and size (1061) 56
Allen, T.M., Hansen, C., Martin, F., Redemann, C. and Yau-Young, A.
Liposomes containing synthetic lipid derivatives of poly(ethylene glycol) show prolonged circulation half-lives in vivo (1066) 29
Aller, P., see Cabañas, C. (1092) 165
Allison, W.S., see Bullough, D.A. (1057) 208
Allmaier, G., see Luderer, M.E.H. (1076) 427
Allnutt, F.C.T., Ewy, R., Renganathan, M., Pan, R.S. and Dilley, R.A.
Nigericin and hexylamine effects on localized proton gradients in thylakoids (1059) 28
Allnutt, F.C.T., see Renganathan, M. (1059) 16
Allocati, N., see Di Ilio, C. (1077) 141
Almeida, M.R., Altland, K., Rauh, S., Gawinowicz, M.A., Moreira, P., Costa, P.P. and Saraiva, M.J.
Characterization of a basic transthyretin variant – TTR Arg 102 – in the German population (1097) 224
Alomar, Y., see Negre-Salvayre, A. (1096) 291
Alonso, A., see Burger, K.N.J. (1068) 249
Alpers, D.H., see Eliakim, R. (1091) 1
Altamirano, M.M., Plumbridge, J.A., Hernández-Arana, A. and Calcagno, M.
Secondary structure of *Escherichia coli* glucosamine-6-phosphate deaminase from amino acid sequence and circular dichroism spectroscopy (1076) 266
Altland, K., see Almeida, M.R. (1097) 224
Alvarez-Hernandez, X., Nichols, G.M. and Glass, J.
Caco-2 cell line: a system for studying intestinal iron transport across epithelial cell monolayers (1070) 205
Alvaro, D., see Corradini, S.G. (1086) 125
Alving, C.R., see Verma, J.N. (1066) 229
Amano, H., Ives, C.L., Bott, K.F. and Shishido, K.
A limited number of *Bacillus subtilis* strains carry a tetracycline-resistance determinant at a site close to the origin of replication (1088) 251
Amanuma, K. and Mitsui, Y.
Hyaluronic acid synthesis is absent in normal human endothelial cells irrespective of hyaluronic acid synthetase inhibitor activity, but is significantly high in transformed cells (1092) 336
Amarant, T., Burkhart, W., LeVine, III, H., Arocha-Pinango, C.L. and Parikh, I.
Isolation and complete amino acid sequence of two fibrinolytic proteinases from the toxic *Saturnid* caterpillar *Lonomia achelous* (1079) 214
Ambler, R.P.
Sequence variability in bacterial cytochromes *c* (1058) 42
Ambrosin, V., see Massari, S. (1067) 131
Ambroziak, W., see Ryzlak, M.T. (1079) 203
Ambudkar, I.S., see Hiramatsu, Y. (1092) 391
Ameen, M., see Shankaran, R. (1078) 251
Amesz, J., see Deinum, G. (1060) 125
Amesz, J., see Kleinherenbrink, F.A.M. (1057) 346
Amesz, J., see Kobayashi, M. (1057) 89
Ametani, A., see Kobayashi, T. (1077) 11
Amiconi, G., see Congiu Castellano, A. (1080) 119
Amiri, I., see Awade, A. (1077) 241
Amirkhanian, J.D., Bruni, R., Waring, A.J. and Taeusch, H.W.
Inhibition of mixtures of surfactant lipids and synthetic sequences of surfactant proteins SP-B and SP-C (1096) 355
Ämmälä, C., Bokvist, K., Galt, S. and Rorsman, P.
Inhibition of ATP-regulated K^+-channels by a photoactivatable ATP-analogue in mouse pancreatic β-cells (1092) 347
Amrhein, N., see Martinoia, E. (1062) 271
Anders, M.W., see Hashmi, M. (1074) 36
Anderson, J.C., Raynes, J.G., Fitzpatrick, R.J. and Dobson, H.
Increased hyaluronate synthesis and changes in glycosaminoglycan ratios and molecular weight of proteoglycans synthesised by cultured cervical tissue from ewes at various stages of pregnancy (1075) 187
Anderson, J.M., see Chow, W.S. (1057) 69
Anderson, R.A., see Jenkins, G.H. (1080) 11
Andersson, L., see Lundahl, P. (1067) 177
Andersson, U., see Björkhem, I. (1085) 329
Ando, S., see Nakao, T. (1086) 305
Ando, Y., Inoue, M., Araki, S. and Morino, Y.
Inhibition of carrageenin-induced paw edema by a superoxide dismutase derivative that circulates bound to albumin (1073) 374

Andreasson, E., see Svensson, P. (1060) 45
Andreotti, G., see Birolo, L. (1080) 198
Andrews, G.K., see De, S.K. (1090) 223
Andrews, S.C., Findlay, J.B.C., Guest, J.R., Harrison, P.M., Keen, J.N. and Smith, J.M.A.
Physical, chemical and immunological properties of the bacterioferritins of *Escherichia coli, Pseudomonas aeruginosa* and *Azotobacter vinelandii* (1078) 111
Andrick, C., Bröring, K., Deuticke, B. and Haest, C.W.M.
Fast translocation of phosphatidylcholine to the outer membrane leaflet after its synthesis at the inner membrane surface in human erythrocytes (1064) 235
Andrietti, F., Sacchi, V.F., Della Torre Piccinelli, A. and Magagnin, S.
Membrane vesicles in the study of transport processes: a critical analysis of the experimental procedure (1067) 103
Anel, A., see Iturralde, M. (1086) 81
Angel, J.F., see Pugazhenthi, S. (1083) 310
Angel, P. and Karin, M.
The role of Jun, Fos and the AP-1 complex in cell-proliferation and transformation (1072) 129
Angeletti, M., see Barra, D. (1076) 143
Angelico, M., see Corradini, S.G. (1086) 125
Angelini, C., see Martinuzzi, A. (1095) 217
Anglés-Cano, E., see Gaussem, P. (1079) 321
Annaert, G., see De Bisschop, E. (1094) 147
Anraku, Y., Ohya, Y. and Iida, H.
Cell cycle control by calcium and calmodulin in *Saccharomyces cerevisiae* (1093) 169
Ansari, G.A.S., see Peterson, J.W. (1092) 79
Ansari, G.A.S., see Singhal, S.S. (1079) 285
Antholine, W.M., see Sinha, B.K. (1096) 81
Antoine, C., Lellouche, J.-P., Maclouf, J. and Pradelles, P.
Development of enzyme immunoassays for leukotrienes using acetylcholinesterase (1075) 162
Antonenko, Y.N. and Bulychev, A.A.
Measurements of local pH changes near bilayer lipid membrane by means of a pH microelectrode and a protonophore-dependent membrane potential. Comparison of the methods (1070) 279
Antonenko, Y.N. and Bulychev, A.A.
Effect of phloretin on the carrier-mediated electrically silent ion fluxes through the bilayer lipid membrane: measurements of pH shifts near the membrane by pH microelectrode (1070) 474
Antoni, F., see Farkas, G. (1091) 81
Antoni, F., see Kalapos, M.P. (1092) 284
Antonio, R.V., Pereira da Silva, L. and Vercesi, A.E.
Alterations in mitochondrial Ca^{2+} flux by the antibiotic X-537A (lasalocid-A) (1056) 250
Antosiewicz, J., see Wozniak, M. (1082) 94
Anzai, K., Hamasuna, M., Kadono, H., Lee, S., Aoyagi, H. and Kirino, Y.
Formation of ion channels in planar lipid bilayer membranes by synthetic basic peptides (1064) 256
Anzai, M., see Harada, H. (1092) 404
Aoyagi, H., see Anzai, K. (1064) 256
Aoyagi, H., see Kato, T. (1063) 191
Aoyagi, K., Takeshige, K. and Minakami, S.
Effects of iodothyronines on chemotactic peptide-receptor binding and superoxide production of human neutrophils (1093) 223
Aoyama, Y., Yoshida, Y., Sonoda, Y. and Sato, Y.
Role of the side chain of lanosterol in substrate recognition and catalytic activity of lanosterol 14α-demethylase (cytochrome *P*-450_{14DM}) of yeast (1081) 262
Apitz-Castro, R., Jain, M.K., Bartoli, F., Ledezma, E., Ruiz, M.-C. and Salas, R.
Evidence for direct coupling of primary agonist–receptor interaction to the exposure of functional IIb–IIIa complexes in human blood platelets. Results from studies with the antiplatelet compound ajoene (1094) 269
Appleby, G.J., see Rattigan, S. (1094) 217
Aragón, C., see Alcántara, R. (1067) 64
Arai, H., see Kume, N. (1091) 63
Arai, T., see Tsuji, A. (1078) 85
Arakelian, V.B., see Melikyan, G.B. (1068) 245
Araki, S., see Ando, Y. (1073) 374
Araki, S., see Miyazaki, A. (1082) 143
Arao, T., see Maruo, K. (1074) 62
Arata, Y., see Watanabe, T. (1074) 398
Araujo, G.W., Pesquero, J.B., Lindsey, C.J., Paiva, A.C.M. and Pesquero, J.L.
Identification of serine proteinases with tonin-like activity in the rat submandibular and prostate glands (1074) 167
Arbeeny, C.M. and Bergquist, K.E.
The effect of pravastatin on serum cholesterol levels in hypercholesterolemic diabetic rabbits (1096) 238
Arbeeny, C.M., see Quig, D.W. (1083) 257
Archer, C.W., see Craig, F.M. (1074) 243
Arciero, D.M., see Hooper, A.B. (1058) 13
Arezina, J., see Wani, A.A. (1090) 195
Arfi, T.S., see Alessandri, J.-M. (1086) 340
Argoff, C.E., Comly, M.E., Blanchette-Mackie, J., Kruth, H.S., Pye, H.T., Goldin, E., Kaneski, C., Vanier, M.T., Brady, R.O. and Pentchev, P.G.
Type C Niemann-Pick disease: cellular uncoupling of cholesterol homeostasis is linked to the severity of disruption in the intracellular transport of exogenously derived cholesterol (1096) 319
Ariga, H., see Kihara, F. (1089) 227
Arita, H., see Kishino, J. (1092) 169
Arita, H., see Kurihara, H. (1082) 285
Arnao, M.B., see Acosta, M. (1077) 273
Arnhold, J., Hammerschmidt, S. and Arnold, K.
Role of functional groups of human plasma and luminol in scavenging of NaOCl and neutrophil-derived hypochlorous acid (1097) 145
Arnold, J., see Mayer, R.J. (1089) 141
Arnold, K., see Arnhold, J. (1097) 145
Arnold, R., see Fehmann, H.-C. (1091) 356
Arnold, W.M., see Alder, G.M. (1061) 111
Arnon, R., Sehayek, E., Vogel, T. and Eisenberg, S.
Effects of exogenous apo E-3 and of cholesterol-enriched meals on the cellular metabolism of human chylomicrons and their remnants (1085) 336
Arnone, M.I., see Birolo, L. (1080) 198
Arocha-Pinango, C.L., see Amarant, T. (1079) 214
Aronson, J.K., see Jenkins, R.J. (1092) 138
Aronson, J.K., see Syme, P.D. (1093) 234
Arp, D.J., see Hyman, M.R. (1076) 165
Arrol, S., Mackness, M.I., Laing, I. and Durrington, P.N.
Lipoprotein secretion by the human hepatoma cell line Hep G2: differential rates of accumulation of apolipoprotein B and lipoprotein lipids in tissue culture media in response to albumin, glucose and oleate (1086) 72
Arrondo, J.L.R., see Castresana, J. (1065) 29
Arteaga, D., see Chávez, E. (1070) 461
Arvidsson, L., see Saalman, E. (1064) 124
Asada, H., Shibata, K., Uchida, K., Yamauchi, A., Kono, M., Takeyama, Y., Ohyanagi, H. and Saitoh, Y.
Presence of human immunoglobulin G anti serum pancreatic elastase 1 autoantibodies and their influence on elastase 1 radioimmunoassay (1080) 34
Asada, K., see Takahashi, M. (1059) 361
Asai, K., see Kuzuya, M. (1084) 198
Asai, K., see Kuzuya, M. (1096) 155
Asano, K., see Iizuka, H. (1093) 95

Asano, T., see Takahashi, S. (1093) 207
Ascenzi, P., see Congiu Castellano, A. (1080) 119
Ascoli, F., see Barra, D. (1076) 143
Ashihara, H., see Yabuki, N. (1073) 474
Ashworth, K.J., see Kirk, K. (1061) 305
Askari, A., Xie, Z., Wang, Y., Periyasamy, S. and Huang, W.-H.
A second messenger role for monoacylglycerols is suggested by their activating effects on the sodium pump (1069) 127
Asotra, K., Lagos, N. and Vergara, J.
Synthesis of polyphosphoinositides in transverse tubule and sarcoplasmic reticulum membranes of frog skeletal muscle (1081) 229
Asou, H., see Kobayashi, M. (1090) 238
Asryants, R.A., see Kuzminskaya, E.V. (1075) 123
Assadullahi, T.P., Hider, R.C. and McAuley, A.J.
Liposome formation from synthetic polyhydroxyl lipids (1083) 271
Assefa, H., see Wheeler, J.J. (1086) 310
Åstedt, B., see Kiso, U. (1074) 74
Astl, G. and Mayer, E.
Alkali cation effect on carbonyl-hemoglobin's and -myoglobin's conformer populations when exposed to freeze-concentration of their phosphate-buffered aqueous solutions (1080) 155
Atkins, L., see Jenkins, R.L. (1077) 379
Atkinson, C.T., see Verma, J.N. (1066) 229
Atkinson, S.J., see Ward, R.V. (1079) 242
Atkinson, T., see Barstow, D.A. (1087) 73
Atkinson, T., see Spencer, P. (1073) 386
Au, D.M.Y., see Murphy, D.J. (1088) 86
Aubery, M., see Botti, J. (1093) 13
Audette, M., see Bouillon, M. (1097) 95
Aul, D.J., see Vlock, D.R. (1080) 1
Aumüller, G., see Seitz, J. (1078) 139
Austin, G.A., see Allen, T.M. (1061) 56
Autexier, C., Wragg-Légaré, S. and DuBow, M.S.
Characterization of the *Pseudomonas aeruginosa* transposable phage D3112 left-end regulatory region (1088) 147
Auwerx, J., see Staels, B. (1085) 131
Avadhani, N.G., see Basu, A. (1087) 98
Avila, J., see Nieto, A. (1096) 197
Avron, M., see Bental, M. (1092) 21
Awade, A., Metz-Boutigue, M.H., Le Ret, M., Genot, G., Amiri, I. and Burkard, G.
The complete amino acid sequence of the pathogenesis-related (PR2) protein induced in chemically stressed bean leaves (1077) 241
Awasthi, Y.C., see Singh, S.V. (1074) 363
Awasthi, Y.C., see Singhal, S.S. (1079) 285
Ayala, A., Gordillo, E., Castaño, A., Lobato, M.-F. and Machado, A.
Involvement of diminution of glutathione, produced by deficiency of methionine in the diet, in the elevation of malic enzyme level in rat liver (1084) 48
Ayraut-Jarrier, M., see Schroeder, F. (1066) 183
Azam, N., see Baburaj, K. (1078) 258
Azéma, C., see Marques-Vidal, P. (1082) 185
Azevedo, J.E., see Preis, D. (1090) 133
Azevedo, M.S., see Mira, M.L. (1060) 257
Azuma, Y., see Matsumoto, K. (1092) 311
Azzarolo, A.M., Ritchie, G. and Quamme, G.A.
Some characteristics of sodium-independent phosphate transport across renal basolateral membranes (1064) 229
Azzarolo, A.M., Ritchie, G. and Quamme, G.A.
Inhibition of sodium-phosphate cotransport in renal brush-border membranes with the stilbenedisulfonate, H_2-DIDS (1069) 70
Azzi, A., see Nałęcz, M.J. (1079) 87
Azzi, A., see Szewczyk, A. (1073) 209

B

Baas, P.D., see Van Mansfeld, A.D.M. (1087) 235
Babij, P., see Hundal, H.S. (1092) 376
Babila, T., see Lichtstein, D. (1073) 65
Babizhayev, M.A. and Brodskaya, M.W.
Changes in fibronectin staining in the human lens during ageing and cataractogenesis (1096) 139
Baboulène, M., see Urrutigoïty, M. (1079) 209
Baburaj, K., Saeed, A., Azam, N. and Durani, S.
Exploring borate-activated electron-rich glyoxals as the arginine-reactivity probes. The reactivities of functionally critical arginines in some representative enzymes (1078) 258
Baby, T.G. and Hayashi, S.-i.
Presence of ornithine decarboxylase antizyme in primary cultured hepatocytes of the frog *Xenopus laevis* (1092) 161
Bach, D., see Wachtel, E.J. (1066) 63
Bach, M. and Lührmann, R.
Protein–RNA interactions in 20S U5 snRNPs (1088) 139
Bach, M., see Lührmann, R. (1087) 265
Bächle, R., see Fehmann, H.-C. (1091) 356
Bachowski, G.J., see Feix, J.B. (1075) 28
Bacic, A., see Parish, C.R. (1073) 56
Baciou, L., see Sebban, P. (1057) 109
Baer, A.N., Costello, P.B. and Green, F.A.
Stereospecificity of the hydroxyeicosatetraenoic and hydroxyoctadecadienoic acids produced by cultured bovine endothelial cells (1085) 45
Baeuerle, H.-D., see Beschiaschvili, G. (1068) 195
Baeuerle, P.A.
The inducible transcription activator NF-κB: regulation by distinct protein subunits (1072) 63
Bagchi, M., see Banerjee, A. (1076) 330
Bagchi, M., see Banerjee, A. (1077) 56
Baghestanian, M., see Kraupp, M. (1070) 157
Bahrami, L.H., see Perkins, P.S. (1092) 145
Bailey, G.S., see Al-Hamidi, A.A.A. (1075) 88
Bailey, J.E., see Przybycien, T.M. (1076) 103
Bailey, M., see Goodall, J.C. (1089) 257
Bailleul, B., see Fronza, G. (1087) 330
Bakan, D.A., Saltman, P., Thériault, Y. and Wright, P.E.
Kinetics and mechanisms of reduction of Cu(II) and Fe(III) complexes by soybean leghemoglobin α (1079) 182
Bakás, L.S. and Disalvo, E.A.
Effect of encapsulated Ca^{2+} on the surface properties of curved phosphatidylcholine bilayers (1065) 114
Baker, E., see Richardson, D. (1093) 20
Baker, E., see Richardson, D.R. (1091) 294
Baker, P.J., see Lilley, K.S. (1080) 191
Bakker, G.C.H., see Gorree, G.C.M. (1086) 209
Balasubramanian, D., see Sundari, C.S. (1065) 35
Balázs, A., Rajczy, P. and Horváth, G.
The effect of the conformer state and the model size chosen on the force field of the polypeptide backbone (1077) 127
Baldridge, G.D. and Fallon, A.M.
Nucleotide sequence of a mosquito 18S ribosomal RNA gene (1089) 396
Balduini, C., see Torti, M. (1070) 20
Baldwin, S.A., see Takakura, Y. (1070) 1
Baldwin, S.A., see Takakura, Y. (1070) 11
Balgavy, P., see Lohner, K. (1061) 132

Balis, J.U., see Shelley, S.A. (1096) 338
Balon, L.M. and Ahearn, G.A.
Both Na^+ and Cl^- gradients energize NaCl/L-glutamate cotransport in lobster hepatopancreatic brush border membrane vesicles (1067) 123
Baltzell, J.K., see Otto, D.A. (1082) 37
Balzi, E. and Goffeau, A.
Multiple or pleiotropic drug resistance in yeast (1073) 241
Bambara, R.A. and Jessee, C.B.
Properties of DNA polymerases δ and ϵ, and their roles in eukaryotic DNA replication (1088) 11
Bamberg, E., see Langosch, D. (1063) 36
Banchev, T., Srebreva, L. and Zlatanova, J.
Purification of histone $H1^0$ and its subfractions under non-denaturing conditions (1073) 230
Bandorowska, J., see Staron, K. (1088) 36
Banerjee, A., Richiert, D.M. and Bagchi, M.
Phosphorylation of small molecular weight polypeptides in the iris-ciliary complex, aqueous humor and vitreous humor (1077) 56
Banerjee, A., Richiert, D.M., Emanuel, K., Singh, A.K. and Bagchi, M.
Studies on the possible role of vitreous humor on protein synthesis and morphology of organ cultured adult rabbit lens. II. Epithelial cells (1076) 330
Banerji, A., see Om Kumar, R.V. (1078) 219
Banfi, G., see Bellotti, V. (1097) 177
Banfield, D.K., Chow, B.K.-C., Funk, W.D., Robertson, K.A., Umelas, T.M., Woodworth, R.C. and MacGillivray, R.T.A.
The nucleotide sequence of rabbit liver transferrin cDNA (1089) 262
Banga, H.S., Halenda, S.P. and Feinstein, M.B.
Potentiation of arachidonic acid release by phorbol myristate acetate in platelets is not due to inhibition of arachidonic acid uptake or incorporation into phospholipids (1091) 115
Banks, J.L.
Structure and ligand binding in membrane-bound proteins and immunoglobulins (1071) 393
Banks, P., see Monk, P.N. (1092) 251
Bannai, S., Sato, H., Ishii, T. and Taketani, S.
Enhancement of glutathione levels in mouse peritoneal macrophages by sodium arsenite, cadmium chloride and glucose/glucose oxidase (1092) 175
Bannai, S., see Sato, H. (1069) 46
Bannister, J.V., see Sáez, G.T. (1092) 325
Bannister, W.H., see Sáez, G.T. (1092) 325
Banno, Y., see Takahashi, M. (1082) 161
Bañó, M.C., see Cohen, S. (1063) 95
Barak, V., see Friedman, G. (1089) 83
Bárány, K., see Rokolya, A. (1057) 276
Bárány, M., see Rokolya, A. (1057) 276
Barash, V., Riskin, A., Shafrir, E., Waddell, I.D. and Burchell, A.
Kinetic and immunologic evidence for the absence of glucose-6-phosphatase in early human chorionic villi and term placenta (1073) 161
Barbacid, M., Lamballe, F., Pulido, D. and Klein, R.
The *trk* family of tyrosine protein kinase receptors (1072) 115
Barber, J., see Chapman, D.J. (1057) 391
Barber, J., see Mayes, S.R. (1060) 1
Barber, J., see Misra, A.N. (1059) 239
Barber, J., see Newell, W.R. (1057) 232
Barber, J., see Telfer, A. (1060) 106
Barber, K.R., see Hamilton, K.S. (1062) 220
Barbey, P., see Mounis, A. (1074) 424
Barbieri, L., see Bolognesi, A. (1087) 293
Barciszewska, M.Z., Lorenz, S., Erdmann, V.A. and Barciszewski, J.
Structural analysis of plant ribosomal 5S RNAs. Visualisation of novel tertiary interactions by cleavage of lupin and wheat 5Sr-RNAs with ribonuclease H (1087) 68
Barciszewski, J., see Barciszewska, M.Z. (1087) 68
Bard, J.M., Candelier, L., Agnani, G., Clavey, V., Torpier, G., Steinmetz, A. and Fruchart, J.C.
Isolation and characterization of human Lp-B lipoprotein containing apolipoprotein B as the sole apolipoprotein (1082) 170
Barhoumi, R., see Mouneimne, Y. (1066) 83
Barisas, B.G., see Bulva, C.J. (1094) 134
Barker, H.M., see McPartlin, A.E. (1088) 308
Barker, K.L., see Whelly, S.M. (1092) 218
Barker, K.L., see Young, A.J. (1092) 211
Barlet-Bas, C., see El Mernissi, G. (1064) 205
Barnes, S., see Zhang, R. (1096) 179
Baroni, M.G., see Li, S.-R. (1097) 293
Barra, D., Fioretti, E., Angeletti, M., Maras, B., Bossa, F. and Ascoli, F.
Proteinase isoinhibitors from bovine spleen: primary structure of an intermediate in the processing of the precursor (1076) 143
Barra, D., see Di Ilio, C. (1077) 141
Barra, D., see Petruzzelli, R. (1076) 221
Barranger, J.A., see Van Weely, S. (1096) 301
Barron, J.T. and Kopp, S.J.
Phosphorylase *b* kinase and phosphorylase *a* phosphatase activities in contracting vascular smooth muscle: stimulation by fatty acid (1073) 550
Barron, J.T., Kopp, S.J., Tow, J.P. and Parrillo, J.E.
Differential effects of fatty acids on glycolysis and glycogen metabolism in vascular smooth muscle (1093) 125
Barroso, M., see Lechner, M.C. (1087) 157
Barstow, D.A., Black, G.W., Sharman, A.F., Scawen, M.D., Atkinson, T., Li, S.S., Chia, W.N., Clarke, A.R. and Holbrook, J.J.
Expression of the copy DNA for human A4 and B4 L-lactate dehydrogenases in *Escherichia coli* (1087) 73
Bartel, D., see Kietz, D. (1064) 81
Barter, P.J., see Lagrost, L. (1082) 204
Barter, P.J., see Lagrost, L. (1085) 209
Barter, P.J., see Warren, R.J. (1086) 354
Barteri, M., see Congiu Castellano, A. (1080) 119
Barth, A., Mäntele, W. and Kreutz, W.
Infrared spectroscopic signals arising from ligand binding and conformational changes in the catalytic cycle of sarcoplasmic reticulum calcium ATPase (1057) 115
Barth, C. and Stark, G.
Radiation inactivation of ion channels formed by gramicidin A. Protection by lipid double bonds and by α-tocopherol (1066) 54
Barthe, C., Figarella, C., Carrère, J. and Guy-Crotte, O.
Identification of 'cystic fibrosis protein' as a complex of two calcium-binding proteins present in human cells of myeloid origin (1096) 175
Bartoli, F., see Apitz-Castro, R. (1094) 269
Barton, P., Collins, A. and Hoogenraad, N.
A variant of glycophorin A resulting from the deletion of exon 4 (1090) 265
Bartonek-Roxå, E., Eriksson, H. and Mattiasson, B.
The cDNA sequence of a neutral horseradish peroxidase (1088) 245
Bartrons, R., see Colomer, D. (1097) 270
Bartsch, R.G.
The distribution of soluble metallo-redox proteins in purple phototrophic bacteria (1058) 28
Bartsch, R.G., Ferguson, S.J. and Williams, R.J.P.
Foreword (1058) 1
Barua, P.K., see Das, D.K. (1073) 394
Bashford, C.L., see Alder, G.M. (1061) 111
Bass, D.A., see Bauldry, S.A. (1084) 178

Bassols, A., see Romarís, M. (1093) 229
Basu, A. and Avadhani, N.G.
Nucleotide sequence of cDNA for nuclear encoded subunit Vb of mouse cytochrome-*c* oxidase (1087) 98
Basu, J., see Kundu, M. (1096) 205
Bataille, D., see Tani, T. (1095) 249
Bates, T.E., see Rafter, J.E.M. (1074) 263
Battelli, M.G., see Bolognesi, A. (1087) 293
Battioni, J.P., see Cucurou, C. (1081) 99
Bauer, J.W. and Fischer-Colbrie, R.
Primary structure of bovine chromogranin B deduced from cDNA sequence (1089) 124
Bauldry, S.A., Wykle, R.L. and Bass, D.A.
Differential actions of diacyl- and alkylacylglycerols in priming phospholipase A_2, 5-lipoxygenase and acetyltransferase activation in human neutrophils (1084) 178
Baum, B.J., see Hiramatsu, Y. (1092) 391
Baum, B.J., see Royce, L.S. (1092) 401
Baum, C.L., see Wali, R.K. (1092) 119
Bäumert, H.G., see Vetter, I.R. (1067) 9
Baust, J.G., see Hansen, T.N. (1079) 169
Baverel, G., see Dugelay, S. (1075) 191
Baxter, M.A., Bunce, C.M., Lord, J.M., French, P.J., Michell, R.H. and Brown, G.
Changes in inositol transport during DMSO-induced differentiation of HL60 cells towards neutrophils (1091) 158
Bayerl, T., see Heise, H. (1061) 121
Bayley, P.M., see Martin, S.R. (1073) 555
Beacham, I.R., see Free, M.L. (1087) 205
Bear, C.E.
A K^+-selective channel in the colonic carcinoma cell line: CaCo-2 is activated with membrane stretch (1069) 267
Beaudoin, A.R. and Grondin, G.
Shedding of vesicular material from the cell surface of eukaryotic cells: different cellular phenomena (1071) 203
Beaudoin, A.R., see Côté, Y.P. (1078) 187
Beaugé, F., see Zérouga, M. (1086) 295
Beaugé, L., see Berberián, G. (1063) 217
Beaugé, L., see Roberts, G. (1064) 131
Beaujean, V., see Devuyst, O. (1066) 268
Beaumier, B. and Béliveau, R.
Kidney brush-border membrane transporters: differential sensitivity to diethyl pyrocarbonate (1068) 142
Beaune, P., see Ged, C. (1088) 433
Beauregard, M., Martin, I. and Holzwarth, A.R.
Kinetic modelling of exciton migration in photosynthetic systems. (1) Effects of pigment heterogeneity and antenna topography on exciton kinetics and charge separation yields (1060) 271
Beavis, A.D.
N-Ethylmaleimide and mercurials modulate inhibition of the mitochondrial inner membrane anion channel by H^+, Mg^{2+} and cationic amphiphiles (1063) 111
Bechara, E.J.H., see Hermes-Lima, M. (1056) 57
Becker, G., see Blöcher, D. (1065) 160
Becker, M., Nagarajan, V., Middendorf, D., Parson, W.W., Martin, J.E. and Blankenship, R.E.
Temperature dependence of the initial electron-transfer kinetics in photosynthetic reaction centers of *Chloroflexus aurantiacus* (1057) 299
Beckerleg, A.M., see Klibanov, A.L. (1062) 142
Bedard, P., see Narayanan, N. (1070) 83
Bednar, D.L., Stein, R.B., Garsky, V.M. and Williams Jr., D.L.
The bovine endothelin receptor has an apparent molecular weight of 43 000 (1092) 226
Beenakkers, A.M.T., see Surholt, B. (1086) 15
Beerman, T.A., Woynarowski, J.M., Sigmund, R.D., Gawron, L.S., Rao, K.E. and Lown, J.W.
Netropsin and bis-netropsin analogs as inhibitors of the catalytic activity of mammalian DNA topoisomerase II and topoisomerase cleavable complexes (1090) 52
Beers, K., see Bottje, W. (1073) 168
Behere, D.V., see Modi, S. (1080) 45
Behnke, W.D., see Ernst, E.G. (1089) 331
Beintema, A., see Gorree, G.C.M. (1086) 209
Bekkers, A.C.A.P.A., Franken, P.A., Toxopeus, E., Verheij, H.M. and De Haas, G.H.
The importance of glycine-30 for enzymatic activity of phospholipase A_2 (1076) 374
Bekkers, A.C.A.P.A., Franken, P.A., Van den Bergh, C.J., Verbakel, J.M.A., Verheij, H.M. and De Haas, G.H.
The use of genetic engineering to obtain efficient production of porcine pancreatic phospholipase A_2 by *Saccharomyces cerevisiae* (1089) 345
Belaich, J.P., see Bruschi, M. (1076) 79
Belikova, Y.O., see Saks, V.A. (1074) 302
Belina, H., see Thompson, W. (1083) 207
Béliveau, R., see Beaumier, B. (1068) 142
Béliveau, R., see Côté, Y.P. (1078) 187
Béliveau, R., see Gingras, D. (1066) 261
Bell, D., Sabloff, M., Zannis-Hadjopoulos, M. and Price, G.
Anti-cruciform DNA affinity purification of active mammalian origins of replication (1089) 299
Bell, D.A., see Cohen, S.G. (1076) 112
Bell, D.R. and Elcombe, C.R.
Regulation of differentially spliced transcripts of acyl-CoA oxidase in the rat (1090) 211
Bell, E., see Lilley, K.S. (1080) 191
Bell, J.D., Lee, J.A., Lee, H.A., Sadler, P.J., Wilkie, D.R. and Woodham, R.H.
Nuclear magnetic resonance studies of blood plasma and urine from subjects with chronic renal failure: identification of trimethylamine-*N*-oxide (1096) 101
Bell, J.D., see Rafter, J.E.M. (1074) 263
Bell, J.E., see Lilley, K.S. (1080) 191
Bell, K., see Halliday, J.A. (1077) 25
Bellemare, F., see Maenz, D.D. (1069) 250
Bellis, S.L., Grosvenor, W., Kass-Simon, G. and Rhoads, D.E.
Chemoreception in *Hydra vulgaris* (*attenuata*): initial characterization of two distinct binding sites for L-glutamic acid (1061) 89
Bellomo, G., see Albano, E. (1091) 310
Bellón, T., see Cabañas, C. (1092) 165
Bellosta, P., see Legname, G. (1090) 119
Bellosta, S., see Bernini, F. (1083) 94
Bellotti, V., Stoppini, M., Merlini, G., Zapponi, M.C., Meloni, M.L., Banfi, G. and Ferri, G.
Amino acid sequence of k Sci, the Bence Jones protein isolated from a patient with light chain deposition disease (1097) 177
Belshaw, N.J. and Williamson, G.
Interaction of β-cyclodextrin with the granular starch binding domain of glucoamylase (1078) 117
BeMent, D.M., see Smith, E.O. (1089) 266
Ben-Naim, M., see Friedman, G. (1082) 27
Ben-Naim, M., see Stein, Y. (1084) 87
Benarous, R., see Ribeiro, A. (1087) 219
Benassayag, C., see Garreau, B. (1094) 339
Benavente, J., see Heredia, A. (1062) 239
Benders, A.A.G.M., see Jacobs, A.E.M. (1096) 14
Benedict, M.A., see DeSilver, D.A. (1089) 309
Benevolensky, D.S., see Bezprozvanny, I.B. (1064) 75
Benga, G., Popescu, O., Borza, V., Hodârnău, A., Pop, V.I. and Wrigglesworth, J.
Water transport in human red cells: effects of 'non-inhibitory' sulfhydryl reagents (1061) 309

Bengtsson-Olivecrona, G., see Melin, T. (1075) 259
Benito, B., Moreno, E. and Lagunas, R.
Half-life of the plasma membrane ATPase and its activating system in resting yeast cells (1063) 265
Benne, R., see Bout, A. (1090) 43
Bennekou, P., see Christophersen, P. (1065) 103
Bennett, C.F., see Winkler, J.D. (1081) 339
Bennett, D., see Jørgensen, K. (1062) 227
Bennett, D., see Jørgensen, K. (1067) 241
Bensadoun, A., see Legrand, P. (1086) 89
Benson, L.A., see George, S.K. (1066) 131
Bental, M., Pick, U., Avron, M. and Degani, H.
Polyphosphate metabolism in the alga *Dunaliella salina* studied by ^{31}P-NMR (1092) 21
Bentrup, F.-W., see Weiser, T. (1066) 109
Benz, R., see De Pinto, V. (1061) 279
Benz, S.K., see Peterson, R.P. (1064) 165
Beppu, M., see Kikugawa, K. (1096) 108
Beppu, T., see Hashimoto, Y. (1088) 225
Beppu, T., see Tamaki, T. (1088) 292
Berberián, G. and Beaugé, L.
Phosphorylation of Na,K-ATPase by acetyl phosphate and inorganic phosphate. Sidedness of Na^+, K^+ and nucleotide interactions and related enzyme conformations (1063) 217
Berberián, G., see Roberts, G. (1064) 131
Bérczi, A., Sizensky, J.A., Crane, F.L. and Faulk, W.P.
Diferric transferrin reduction by K562 cells. A critical study (1073) 562
Berden, J.A., Hartog, A.F. and Edel, C.M.
Hydrolysis of ATP by F_1 can be described only on the basis of a dual-site mechanism (1057) 151
Berenski, C.J., see Jhun, B.H. (1061) 149
Berenson, G.S., see Srinivasan, S.R. (1081) 188
Berenson, G.S., see Vijayagopal, P. (1092) 291
Bereziat, G., see Ribeiro, A. (1086) 279
Bereziat, G., see Ribeiro, A. (1087) 219
Bergelson, L.D., see Mikhailenko, I.A. (1085) 299
Berger, A. and German, J.B.
Extensive incorporation of dietary Δ-5,11,14 eicosatrienoate into the phosphatidylinositol pool (1085) 371
Berghuis, I., see De Wolf, F.A. (1096) 67
Bergman, M., see Lomnitski, L. (1082) 101
Bergquist, K.E., see Arbeeny, C.M. (1096) 238
Bergstrom, D.E., Abrahamson, J.K. and Chan, M.Y.-M.
Nucleoside and nucleotide transport through a model liquid membrane. Periodic-catastrophic transport of a novel amantadine phosphoramidate conjugate of 5′-AMP (1061) 95
Bermel, M.M., see Turcotte, J.G. (1084) 1
Bernabeu, C., see Cabañas, C. (1092) 165
Bernhardt, I., see Erdmann, A. (1061) 85
Bernhardt, I., see Ihrig, I. (1069) 171
Bernini, F., Bellosta, S., Corsini, A., Maggi, F.M., Fumagalli, R. and Catapano, A.L.
Cholesterol stimulation of HDL binding to human endothelial cells EAhy 926 and skin fibroblasts: evidence for a mechanism independent of cellular metabolism (1083) 94
Berreur, P., see Tiveron, M.-C. (1088) 390
Berrevoets, C.A., see Zegers, N.D. (1073) 23
Berrier, A.L., see Husic, H.D. (1078) 35
Berry, M.N., see Grivell, A.R. (1059) 45
Berry, M.N., see Henly, D.C. (1092) 277
Bersohn, M.M., Vemuri, R., Schuil, D.W., Weiss, R.S. and Philipson, K.D.
Effect of temperature on sodium-calcium exchange in sarcolemma from mammalian and amphibian hearts (1062) 19
Bertazzoni, U., see Cesarone, C.F. (1087) 241
Berteloot, A., see Maenz, D.D. (1069) 250
Bertho, P., Moreau, P., Morré, D.J. and Cassagne, C.
Monensin blocks the transfer of very long chain fatty acid containing lipids to the plasma membrane of leek seedlings. Evidence for lipid sorting based on fatty acyl chain length (1070) 127
Bertlik, M., see Orser, B.A. (1094) 19
Bertocci, B., Garotta, G., Da Prada, M., Lahm, H.-W., Zürcher, G., Virgallita, G. and Miggiano, V.
Immunoaffinity purification and partial amino acid sequence analysis of catechol-*O*-methyltransferase from pig liver (1080) 103
Bertoli, E., see Wozniak, M. (1082) 94
Bertollini, L., see Peres, A. (1092) 89
Berton, G., Sorio, C., Laudanna, C., Menegazzi, M., Carcereri De Prati, A. and Suzuki, H.
Activation of human monocyte-derived macrophages by interferon γ is accompanied by increase polymerase activity of poly(ADP-ribose) (1091) 101
Bertrams, A. and Ziegler, K.
Hepatocellular uptake of peptides by bile acid transporters: relationship of carrier-mediated transport of linear peptides with renin-inhibiting activity to multispecific bile acid carriers (1091) 337
Bertrams, A.A. and Ziegler, K.
New substrates of the multispecific bile acid transporter in liver cells: interference of some linear renin inhibiting peptides with transport protein(s) for bile acids (1073) 213
Bertrand-Harb, C., see Chobert, J.-M. (1077) 31
Beschiaschvili, G. and Baeuerle, H.-D.
Effective charge of melittin upon interaction with POPC vesicles (1068) 195
Beschiaschvili, G. and Seelig, J.
Peptide binding to lipid membranes. Spectroscopic studies on the insertion of a cyclic somatostatin analog into phospholipid bilayers (1061) 78
Bessou, G., see Ninio, E. (1085) 136
Bessoule, J.J., see Juguelin, H. (1068) 41
Best, L., see Lynch, A.M. (1091) 141
Bestmann, H.-J., see Reinke, M. (1081) 274
Betins, J., see Vesterman, B. (1079) 39
Bettendorff, L., Longrée, I., Wins, P. and Schoffeniels, E.
Solubilization of thiamine triphosphatase from the electric organ of *Electrophorus electricus* (1073) 69
Betz, H., see Langosch, D. (1063) 36
Betz, M., see Thurnhofer, H. (1064) 275
Beutler, B., see Han, J. (1090) 22
Beuvery, E.C., see Kersten, G.F.A. (1062) 165
Beyer, P., see Laferrière, A. (1077) 167
Beyers, E.C. and Emken, E.A.
Metabolites of *cis,trans,* and *trans,cis* isomers of linoleic acid in mice and incorporation into tissue lipids (1082) 275
Beynon, R.J., see Flannery, A.V. (1079) 119
Beynon, R.J., see McConchie, S.M. (1096) 26
Bézard, J., see Blond, J.P. (1084) 255
Bézard, J., see Ulmann, L. (1086) 230
Bezard, J., see Mimouni, V. (1086) 349
Bezprozvanny, I.B., Benevolensky, D.S. and Naumov, A.P.
Potassium channels in aortic microsomes: conductance, selectivity, barium-induced blockage and subconductance states (1064) 75
Bhadra, S., see Maruyama, K. (1070) 246
Bhakdi, S., see Sauer, H. (1063) 137
Bhakta, A., see Moudgil, V.K. (1094) 185
Bhalerao, R.P., Gillbro, T. and Gustafsson, P.
Structure and energy transfer of the phycobilisome in a linker protein replacement mutant of cyanobacterium *Synechococcus* 7942 (1060) 59

Bhandari, D.G., Jackson, S. and Trayer, I.P.
Dynamic quenching studies of fluorophore-labelled myosin subfragment 1 and its alkali light chain subunits (1077) 385
Bhatnagar, A., Liu, S.-Q. and Srivastava, S.K.
Structure–activity correlations in human kidney aldehyde reductase-catalyzed reduction of *para*-substituted benzaldehyde by 3-acetyl pyridine adenine dinucleotide phosphate (1077) 180
Biagi, P.L., Bordoni, A., Hrelia, S., Celadon, M. and Horrobin, D.F.
γ-Linolenic acid dietary supplementation can reverse the aging influence on rat liver microsome Δ^6-desaturase activity (1083) 187
Bianconi, A., see Congiu Castellano, A. (1080) 119
Bidet, M., see Merot, J. (1070) 387
Bielen, F.V., Glitsch, H.G. and Verdonck, F.
Changes of the subsarcolemmal Na^+ concentration in internally perfused cardiac cells (1065) 269
Bielicki, J.K., Johnson, W.J., Glick, J.M. and Rothblat, G.H.
Efflux of phospholipid from fibroblasts with normal and elevated levels of cholesterol (1085) 7
Bieth, J.G., see Tchoupé, J.R. (1076) 149
Bignami, A., see Perides, G. (1075) 248
Bigner, D.D., see Gottfries, J. (1081) 253
Bijwaard, K.E., see Gersten, D.M. (1096) 20
Bijzet, J., see Yap, S.H. (1091) 405
Bindels, R.J.M., see Timmermans, J.A.H. (1065) 177
Bindra, A. and Khuller, G.K.
Influence of aminophylline on the lipids in *Microsporum gypseum* (1081) 61
Biondi, A.C., Féliz, M.R. and Disalvo, E.A.
Surface changes induced by osmotic stress and its influence on the glycerol permeability in lipid bilayers (1069) 5
Bircher, J.A., see Moore, M.R. (1096) 170
Birkenmeier, G., see Goubran Botros, H. (1074) 69
Birly, A.K., see McGregor, S.J. (1095) 196
Birolo, L., Arnone, M.I., Cubellis, M.V., Andreotti, G., Nitti, G., Marino, G. and Sannia, G.
The active site of *Sulfolobus solfataricus* aspartate aminotransferase (1080) 198
Bironaite, D.A., Čenas, N.K. and Kulys, J.J.
The rotenone-insensitive reduction of quinones and nitrocompounds by mitochondrial NADH:ubiquinone reductase (1060) 203
Bironaité, D.A., see Čénas, N.K. (1073) 195
Bishop, T.R., see Fujita, H. (1090) 311
Bisson, R., see Rizzuto, R. (1089) 386
Bisson, R., see Rizzuto, R. (1090) 125
Biswas, C., see Kataoka, H. (1089) 393
Bittar, E.E. and Huang, Y.-P.
ATP as a positive effector of the sodium efflux in single barnacle muscle fibers (1070) 332
Bittar, E.E., see Huang, Y.-P. (1062) 255
Bittman, R., see Kan, C.-C. (1066) 95
Biviano, F., see Perides, G. (1075) 248
Bixon, M., Jortner, J. and Michel-Beyerle, M.E.
On the mechanism of the primary charge separation in bacterial photosynthesis (1056) 301
Björkhem, I., Eggertsen, G. and Andersson, U.
On the mechanism of stimulation of cholesterol 7α-hydroxylase by dietary cholesterol (1085) 329
Björkhem, I., see Chow, S.C. (1092) 358
Blaas, D., see Luderer, M.E.H. (1076) 427
Blaas, D., see Thalmann, E. (1088) 301
Blachier, F., Darcy-Vrillon, B., Sener, A., Duée, P.-H. and Malaisse, W.J.
Arginine metabolism in rat enterocytes (1092) 304
Blachier, F., Mourtada, A., Gomis, R., Sener, A. and Malaisse, W.J.
Metabolic and secretory response of parotid cells to cationic amino acids. Uptake and catabolism of L-arginine and L-ornithine (1091) 151
Black, G.W., see Barstow, D.A. (1087) 73
Blair, S.C., Cooney, G.J., Denyer, G.S., Williams, P.F. and Caterson, I.D.
Differences in lipogenesis in tissues of control and gold-thioglucose obese mice after an isocaloric meal (1085) 385
Blanche, P.J., see Nichols, A.V. (1085) 306
Blanchette-Mackie, J., see Argoff, C.E. (1096) 319
Blankenship, R.E., see Becker, M. (1057) 299
Blanton, M.P. and Wang, H.H.
Localization of regions of the *Torpedo californica* nicotinic acetylcholine receptor labeled with an aryl azide derivative of phosphatidylserine (1067) 1
Blatter, M.-C., see Borghini, I. (1083) 139
Blöcher, D., Freisleben, H.-J., Becker, G., Jung, G. and Ring, K.
Incorporation of synthetic peptide helices in membranes of tetraether lipids from *Thermoplasma acidophilum*. A calorimetric study (1065) 160
Bloemers, S.M., see Coenjaerts, F.E.J. (1090) 61
Blokkebak-Poulsen, J., Sheikh, M.I. and Jacobsen, C.
Effects of divalent cations and pH on amiloride-sensitive Na^+ fluxes into luminal membrane vesicles from pars recta of rabbit proximal tubule (1068) 125
Blomqvist, L., see Thelestam, M. (1062) 245
Blond, J.P. and Bézard, J.
Δ^5-Desaturation of dihomogammalinolenic acid (20:3(n − 6)) into arachidonic acid (20:4(n−6)) by rat liver microsomes and incorporation of fatty acids in microsome phospholipids (1084) 255
Blond, J.P., see Mimouni, V. (1086) 349
Blond, J.P., see Ulmann, L. (1086) 230
Blonden, L., see Bout, A. (1090) 43
Blouquit, Y., see Wajcman, H. (1096) 60
Blümle, S. and Zumft, W.G.
Respiratory nitrate reductase from denitrifying *Pseudomonas stutzeri*, purification, properties and target of proteolysis (1057) 102
Bobrowski, K., see Vesterman, B. (1079) 39
Bobst, A.M., see Bobst, E.V. (1078) 199
Bobst, E.V., Perrino, F.W., Meyer, R.R. and Bobst, A.M.
An EPR study to determine the relative nucleic acid binding affinity of single-stranded DNA-binding protein from *Escherichia coli* (1078) 199
Bochkov, V.N., Voino-Yasenetskaya, T.A. and Tkachuk, V.A.
Epinephrine potentiates activation of human platelets by low density lipoproteins (1097) 123
Bocian, D.F., see Peloquin, J.M. (1056) 85
Bockman, R.S., see Rapuano, B.E. (1091) 374
Bocquet, J., see Mounis, A. (1074) 424
Bodhe, A.M.
Purification and properties of a subtilis inhibitor and an associated trypsin inhibitor from *Dolichos biflorus* (1073) 11
Boeckh, T. and Wittmann, H.-G.
Synthesis of a radioactive labeled undecagoldcluster for application in X-ray structure analysis of ribosomes (1075) 50
Boeggeman, E., see Masibay, A.S. (1090) 230
Boersma, W.J.A., see Zegers, N.D. (1073) 23
Boezeman, J.B.M., see Van den Bogert, C. (1097) 87
Bohm, L., see Maeder, D.L. (1076) 233
Böhmer, M.R., see Spruijt, R.B. (1065) 217
Bohn, B., see Wajcman, H. (1096) 60
Bohn, H., see Kiso, U. (1074) 74
Bohnensack, R. and Fritz, S.
Stimulation of alanine metabolism by ammonia in the perfused rat liver. Quantitative analysis by means of a mathematical model (1073) 347

Bohnsack, J.F., Zhou, X., Williams, P.A., Cleary, P.P., Parker, C.J. and Hill, H.R.
Purification of the proteinase from group *B streptococci* that inactivates human C5a (1079) 222
Boiron, F., see Cassagne, C. (1070) 119
Bojesen, E., see Bojesen, I.N. (1064) 297
Bojesen, I.N. and Bojesen, E.
Palmitate binding to and efflux kinetics from human erythrocyte ghost (1064) 297
Bokma, E., see Taanman, J.-W. (1089) 283
Bokvist, K., see Ämmälä, C. (1092) 347
Boland, C., see Nag, K. (1068) 157
Boland, R., see De Boland, A.R. (1094) 238
Bolas, N.M., see Kilby, P.M. (1085) 257
Boldyreff, B., Piontek, K., Schmidt-Spaniol, I. and Issinger, O.-G.
The β subunit of casein kinase II: cloning of cDNAs from murine and porcine origin and expression of the porcine sequence as a fusion protein (1088) 439
Bolkenius, F.N.
Leukocyte-mediated inactivation of α_1-proteinase inhibitor is inhibited by amino analogues of α-tocopherol (1095) 23
Bolognesi, A., Barbieri, L., Abbondanza, A., Falasca, A.I., Carnicelli, D., Battelli, M.G. and Stirpe, F.
Purification and properties of new ribosome-inactivating proteins with RNA *N*-glycosidase activity (1087) 293
Bolotina, I.A., see Makarov, A.A. (1078) 283
Bolt, M.J.G., see Wali, R.K. (1092) 119
Bommer, U.-A., Kraft, R., Kurzchalia, T.V., Price, N.T. and Proud, C.G.
Amino acid sequence analysis of the β- and γ-subunits of eukaryotic initiation factor eIF-2. Identification of regions interacting with GTP (1079) 308
Bon, C., see Bouchier, C. (1088) 401
Bond, H.M., see Von Hodenberg, E. (1086) 173
Bondjers, G., see Camejo, G. (1096) 253
Bondjers, G., see Olsson, U. (1097) 37
Bone, S.
Proton pathways in lysozyme (1078) 336
Bonfils, C., Hébert, J. and Tsang, A.
A 27-bp deletion is responsible for the expression of a variant CABP1, a cyclic AMP-binding protein of *Dictyostelium discoideum* (1088) 145
Bonicel, J., see Bruschi, M. (1076) 79
Bonilla-Marín, M., Moreno-Bello, M. and Ortega-Blake, I.
A microscopic electrostatic model for the amphotericin B channel (1061) 65
Bonincontro, A., see Pedone, F. (1073) 580
Bonkovsky, H.L., see Cable, E.E. (1080) 245
Bonner, F.T., Hughes, M.N., Poole, R.K. and Scott, R.I.
Kinetics of the reactions of trioxodinitrate and nitrite ions with cytochrome *d* in *Escherichia coli* (1056) 133
Bonny, C., Montandon, P.-E., Marc-Martin, S. and Stutz, E.
Analysis of streptomycin-resistance of *Escherichia coli* mutants (1089) 213
Bonomo, E.A., Matsuura, J.E. and Swaney, J.B.
Properties of phosphatidylethanolamine-containing phospholipid–apolipoprotein complexes modified by lecithin–cholesterol acyltransferase (1082) 265
Booth, K.S., see Lee, H.C. (1076) 317
Bor, A., see Rotenberg, M. (1086) 265
Borchardt, R.T., see Takakura, Y. (1070) 1
Borchardt, R.T., see Takakura, Y. (1070) 11
Borchman, D., see Lamba, O.P. (1081) 181
Bordoni, A., see Biagi, P.L. (1083) 187
Borgese, F., Motais, R. and García-Romeu, F.
Regulation of Cl-dependent K transport by oxy-deoxyhemoglobin transitions in trout red cells (1066) 252
Borghgraef, R., see Van Den Bosch, L. (1092) 244
Borghini, I., James, R.W., Blatter, M.-C. and Pometta, D.
Distribution of apolipoprotein E between free and A-II complexed forms in very-low- and high-density lipoproteins: functional implications (1083) 139
Børglum, J.D., see Pedersen, S.B. (1093) 80
Borgström, B., see Lindström, M.B. (1084) 194
Borin, G., see Brunati, A.M. (1091) 123
Borle, F., Sänger, M. and Sigrist, H.
Planar bilayer membranes from photoactivable phospholipids (1066) 144
Born, K.M., see Kushwaha, R.S. (1084) 300
Borneleit, P., see Mueller, K. (1076) 308
Borochov, N., see Wachtel, E.J. (1066) 63
Borojevic, R., see Guaragna, R.M. (1085) 29
Borovyagin, V.L., see Sabelnikov, A.G. (1066) 21
Borror, C.A. and Helmkamp, Jr., G.M.
Transport of phosphatidylinositol to rat hepatocyte plasma membrane catalyzed by phosphatidylinositol transfer protein (1068) 52
Borza, V., see Benga, G. (1061) 309
Bosia, A., see Heller, R. (1093) 55
Boss, W.F., see Wheeler, J.J. (1086) 310
Bossa, F., see Barra, D. (1076) 143
Bossa, F., see Petruzzelli, R. (1076) 221
Bossant, M.-J., see Hullin, F. (1061) 15
Bott, K.F., see Amano, H. (1088) 251
Botti, J., Gouet, E., Aubery, M. and Codogno, P.
Intracellular events are responsible for the differential expression of fibronectin on the fibroblast surface during chick embryo development (1093) 13
Bottin, H. and Sétif, P.
Inhibition of electron transfer from A_0 to A_1 in Photosystem I after treatment in darkness at low redox potential (1057) 331
Bottje, W., Glahn, R., Beers, K., Nejad, H., Graupner, W. and Holmes, K.R.
Indomethacin attenuation of hepatic perfusion and plasma 6-ketoPGF$_{1\alpha}$ elevations following glutathione depletion in rabbits (1073) 168
Bottomley, W., see Munn, A.L. (1060) 82
Bottum, K., see Jonas, A. (1085) 71
Boucher, F., see McIntosh, A.R. (1056) 149
Bouchier, C., Boulain, J.-C., Bon, C. and Ménez, A.
Analysis of cDNAs encoding the two subunits of crotoxin, a phospholipase A_2 neurotoxin from rattlesnake venom: the acidic non enzymatic subunit derives from a phospholipase A_2-like precursor (1088) 401
Bouillon, M., Tessier, P., Boulianne, R., Destrempe, R. and Audette, M.
Regulation by retinoic acid of ICAM-1 expression on human tumor cell lines (1097) 95
Boulain, J.-C., see Bouchier, C. (1088) 401
Boulianne, R., see Bouillon, M. (1097) 95
Bouloussa, O., see Nakache, E. (1074) 413
Bourdeaux, M., see Rimet, O. (1076) 435
Bourguet, J., see Nakache, E. (1074) 413
Bourne, R.M.
Net phosphate transport in phosphate-starved *Candida utilis*: relationships with pH and K^+ (1067) 81
Bourque, D.P., see Ciaccio, P.J. (1088) 319
Bourre, J.M., see Zérouga, M. (1086) 295
Bout, A., Franse, M.M., Collins, J., Blonden, L., Tager, J.M. and Benne, R.
Characterization of the gene encoding human peroxisomal 3-oxoacyl-CoA thiolase (ACAA). No large DNA rearrangement in a thiolase-deficient patient (1090) 43
Boveris, A., see Puntarulo, S. (1074) 277
Bovy, P.R., Getman, D.P., Matsoukas, J.M. and Moore, G.J.

Influence of polyfluorination of the phenylalanine ring of angiotensin II on conformation and biological activity (1079) 23
Bowden, S.J., Hallahan, B.J., Ruffle, S.V., Evans, M.C.W. and Nugent, J.H.A.
Preparation and characterisation of Photosystem II core particles with and without bound bicarbonate (1060) 89
Bowden, S.J., see Hallahan, B.J. (1059) 181
Bowler, A., see Mamo, J.C.L. (1081) 241
Bowman, M.K., see Halpern, H.J. (1093) 121
Bowmaster, T.A., Davis, C.C. and Krauthamer, V.
Excitation and detection of action potential-induced fluorescence changes through a single monomode optical fiber (1091) 9
Boxer, S.G., see Gottfried, D.S. (1059) 63
Boxer, S.G., see Gottfried, D.S. (1059) 76
Boyd, K., see Kutchai, H. (1064) 49
Boynton, S.B., see Wyss, P.A. (1070) 300
Bozas, S.E., see Ehnholm, C. (1086) 255
Bracete, A.M., Sono, M. and Dawson, J.H.
Effects of cyanogen bromide modification of the distal histidine on the spectroscopic and ligand binding properties of myoglobin: magnetic circular dichroism spectroscopy as a probe of distal water ligation in ferric high-spin histidine-bound heme proteins (1080) 264
Bradrick, T.D., see Sekharam, K.M. (1063) 171
Brady, R.O., see Argoff, C.E. (1096) 319
Bragg, P.D., see Tong, R.C.W. (1080) 19
Brahm, J., see Gasbjerg, P.K. (1062) 83
Braidot, E., see Vianello, A. (1060) 299
Brambilla, R., see Morello, L. (1092) 397
Brand, K., see Schöbitz, B. (1095) 230
Brand, K., see Schöbitz, B. (1095) 95
Brand, M.D., see Brown, G.C. (1059) 55
Brändén, R., see Janson, K. (1080) 40
Brandenburg, K. and Seydel, U.
A comment on the preparation of liposomes from and on the $\beta \leftrightarrow \alpha$ acyl chain melting behaviour of rough mutant lipopolysaccharide (1069) 1
Brandt, U., see Lemma, E. (1059) 281
Braquet, P., see Zor, U. (1091) 385
Brash, A.R., see Hughes, M.A. (1081) 347
Brasitus, T.A., see Wali, R.K. (1092) 119
Braslavsky, S.E., see Mullineaux, C.W. (1060) 315
Brass, A., see Lowe, A.G. (1069) 223
Brass, E.P., Gandour, R.D. and Griffith, O.W.
Effect of carnitine acetyltransferase inhibition on rat hepatocyte metabolism (1095) 17
Brass, E.P., see Ruff, L.J. (1073) 543
Bratton, D.L., Kailey, J.M., Clay, K.L. and Henson, P.M.
A model for the extracellular release of PAF: the influence of plasma membrane phospholipid asymmetry (1062) 24
Bräuer, C. and Scheit, K.H.
Characterization of the gene for the bovine seminal vesicle secretory protein SVSP109 (1090) 259
Braun, G. and Malkin, S.
Kinetic relationships between structural changes in the thylakoid membranes and photosystems organization (1060) 303
Bray, R.C., see Wootton, J.C. (1057) 157
Brdiczka, D.
Contact sites between mitochondrial envelope membranes. Structure and function in energy- and protein-transfer (1071) 291
Brdiczka, D., see Bücheler, K. (1056) 233
Brdiczka, D., see Kottke, M. (1061) 215
Brearley, C.J., see Jenkins, R.J. (1092) 138
Brechue, W.F., Kinne-Saffran, E., Kinne, R.K.H. and Maren, T.H.
Localization and activity of renal carbonic anhydrase (CA) in CA-II deficient mice (1066) 201
Breer, H., see Knipper, M. (1065) 107
Breer, H., see Krieger, J. (1088) 277
Brees, C., see Van Veldhoven, P.P. (1073) 203
Brégégère, F., see Tiveron, M.-C. (1088) 390
Bremer, J., see Osmundsen, H. (1085) 141
Brennan, L., see Francis, G. (1067) 89
Brennan, S.O., see Peach, R.J. (1097) 49
Brett, R.S., see Dilger, J.P. (1063) 253
Bricker, T.M., see Jursinic, P.A. (1059) 312
Bridger, W.A., see Majumdar, R. (1076) 86
Brinck, C., see Carstam, R. (1097) 152
Brindley, D.N., Hales, P., Al-Sieni, A.I.I. and Russell, J.C.
Decreased serum lipids, serum insulin and triacylglycerol synthesis in adipose tissue of JCR:LA-corpulent rats treated with benfluorex (1085) 119
Brindley, D.N., see Graham, A. (1081) 151
Brinkmann, A.O., see Zegers, N.D. (1073) 23
Brisson-Lougarre, A., see Vergnes, H.A. (1076) 152
Britigan, B.E., Roeder, T.L. and Buettner, G.R.
Spin traps inhibit formation of hydrogen peroxide via the dismutation of superoxide: implications for spin trapping the hydroxyl free radical (1075) 213
Britton, K.L., see Lilley, K.S. (1080) 191
Brix, O., see Petruzzelli, R. (1076) 221
Brock, J.H., see McGregor, S.J. (1095) 196
Brodbeck, U., see Jäger, K. (1074) 45
Brodskaya, M.W., see Babizhayev, M.A. (1096) 139
Bronner, C. and Landry, Y.
The use of the potential-sensitive fluorescent probe bisoxonol in mast cells (1070) 321
Bronstein, J.C., see Earles, S.M. (1081) 174
Brooks, S.E., see Hoffman, L.M. (1084) 94
Brooks, S.P.J. and Storey, K.B.
The role of protein kinases in anoxia tolerance in facultative anaerobes: purification and characterization of a protein kinase that phosphorylates pyruvate kinase (1073) 253
Bröring, K., see Andrick, C. (1064) 235
Brousseau, R., see Schwartz, J.-L. (1065) 250
Brouwer-Kelder, E.M., see Van Weely, S. (1096) 301
Brown, E.D. and Yada, R.Y.
A kinetic and equilibrium study of the denaturation of aspartic proteinases from the fungi, *Endothia parasitica* and *Mucor miehei* (1076) 406
Brown, G., see Baxter, M.A. (1091) 158
Brown, G., see Dunn, J.F. (1096) 115
Brown, G.C. and Brand, M.D.
On the nature of the mitochondrial proton leak (1059) 55
Brown, G.C., Crompton, M. and Wray, S.
Cytochrome oxidase content of rat brain during development (1057) 273
Brown, P.E., see Lilley, K.S. (1080) 191
Brown, T.A. and DeLuca, H.F.
Photoaffinity labeling of the 1,25-dihydroxyvitamin D-3 receptor (1073) 324
Brown, W.E., see Vlock, D.R. (1080) 1
Brown, W.V., see Oka, K. (1089) 13
Browse, J., see Ohlrogge, J.B. (1082) 1
Broyart, J.-P., Hugot, J.-P., Perret, C. and Porteu, A.
Molecular cloning and characterization of a rat intestinal sucrase-isomaltase cDNA. Regulation of sucrase-isomaltase gene expression by sucrose feeding (1087) 61
Brückwilder, M.L.P., see Reubsaet, F.A.G. (1083) 305
Brudvig, G.W., see Miller, A.-F. (1056) 1
Brulé, H., see Guéant, J.L. (1073) 614
Brunati, A.M., Donella-Deana, A., Ralph, S., Marchiori, F., Borin, G., Fischer, S. and Pinna, L.A.
Stimulation by NaCl, polylysine and heparin of two forms of

spleen tyrosine protein kinase immunologically related with the protein expressed by *lyn* oncogene (1091) 123
Brune, K., see Reinke, M. (1081) 274
Bruni, C.B., see Chiariotti, L. (1089) 54
Bruni, R., see Amirkhanian, J.D. (1096) 355
Brunotte, F., see Syme, P.D. (1093) 234
Bruns, K., see Davis, T.R. (1095) 145
Bruschi, M., Bonicel, J., Hatchikian, E.C., Fardeau, M.L., Belaich, J.P. and Frey, M.
Amino acid sequence and molecular modelling of a thermostable two (4Fe-4S) ferredoxin from the archaebacterium *Methanococcus thermolithotrophicus* (1076) 79
Bruschi, M., see Mus-Veteau, I. (1060) 159
Bryant, D.A., see Li, N. (1059) 215
Bucciarelli, T., see Di Ilio, C. (1077) 141
Bücheler, K., Adams, V. and Brdiczka, D.
Localization of the ATP/ADP translocator in the inner membrane and regulation of contact sites between mitochondrial envelope membranes by ADP. A study on freeze-fractured isolated liver mitochondria (1056) 233
Buchet, R., Jona, I. and Martonosi, A.
Ca^{2+} release from caged-Ca^{2+} alters the FTIR spectrum of sarcoplasmic reticulum (1069) 209
Buchet, R., Varga, S., Seidler, N.W., Molnar, E. and Martonosi, A.
Polarized infrared attenuated total reflectance spectroscopy of the Ca^{2+}-ATPase of sarcoplasmic reticulum (1068) 201
Buchhagen, D.L.
Molecular mechanisms in lung pathogenesis (1072) 159
Buchman, T.G., see De Maio, A. (1087) 303
Buday, L., see Farkas, G. (1091) 81
Budé, R., see Soute, B.A.M. (1073) 434
Budil, D.E. and Thurnauer, M.C.
The chlorophyll triplet state as a probe of structure and function in photosynthesis (1057) 1
Buenger, G.S., see Nair, V. (1078) 121
Buettner, G.R., see Britigan, B.E. (1075) 213
Bühler, H., Perschel, F.H. and Hierholzer, K.
Inhibition of rat renal 11β-hydroxysteroid dehydrogenase by steroidal compounds and triterpenoids; structure/function relationship (1075) 206
Bull, A.W., see Earles, S.M. (1081) 174
Bullough, D.A., Zhuo, S. and Allison, W.S.
Separate β subunits are derivatized with ^{14}C and ^{3}H when the bovine heart mitochondrial F_1-ATPase is doubly labeled with 7-chloro-4-nitro[^{14}C]benzofurazan and 5′-*p*-fluorosulfonylbenzoyl[^{3}H]inosine (1057) 208
Bulva, C.J., Printen, J., Melnykovych, G., Cutts, L., Barisas, B.G. and Roess, D.A.
Corticosteroid effects on lipid lateral diffusion in CEM-C1 and CEM-C7 acute lymphoblastic leukemia cells (1094) 134
Bulychev, A.A., see Antonenko, Y.N. (1070) 279
Bulychev, A.A., see Antonenko, Y.N. (1070) 474
Bunce, C.M., see Baxter, M.A. (1091) 158
Buonocore, F., see Sannia, G. (1073) 114
Burattini, E., see Congiu Castellano, A. (1080) 119
Burch, R.M., see Tiffany, C.W. (1096) 41
Burchell, A. and Waddell, I.D.
The molecular basis of the hepatic microsomal glucose-6-phosphatase system (1092) 129
Burchell, A., see Barash, V. (1073) 161
Burchell, A., see Scott, H.M. (1097) 31
Burden, R.S., see Cooke, D.T. (1061) 156
Burger, K.N.J., Nieva, J.-L., Alonso, A. and Verkleij, A.J.
Phospholipase C activity-induced fusion of pure lipid model membranes. A freeze fracture study (1068) 249
Burger, K.N.J., Wharton, S.A., Demel, R.A. and Verkleij, A.J.
The interaction of synthetic analogs of the N-terminal fusion sequence of influenza virus with a lipid monolayer. Comparison of fusion-active and fusion-defective analogs (1065) 121
Burger, K.N.J., see Frederik, P.M. (1062) 133
Burgess, A.J., Matthews, I., Grimes, E.A., Mata, A.M., Munkonge, F.M., Lee, A.G. and East, J.M.
Chemical crosslinking and enzyme kinetics provide no evidence for a regulatory role for the 53 kDa glycoprotein of sarcoplasmic reticulum in calcium transport (1064) 139
Burgess, A.J., see Grimes, E.A. (1064) 335
Burgess, B., see Panus, P.C. (1091) 303
Burgess, J.P., see Casey, W.M. (1081) 279
Burgos-Trinidad, M. and DeLuca, H.F.
Kinetic properties of 25-hydroxyvitamin D- and 1,25-dihydroxyvitamin D-24-hydroxylase from chick kidney (1078) 226
Burgoyne, R.D.
Control of exocytosis in adrenal chromaffin cells (1071) 174
Burkard, G., see Awade, A. (1077) 241
Burke, J.F., see Wootton, J.C. (1057) 157
Burkhart, W., see Amarant, T. (1079) 214
Burny, A., see Claes, V. (1087) 339
Buron, M.I., see Alcain, F.J. (1073) 380
Burri, M., see Gruber, A. (1088) 151
Bursaux, E., see Yannoukakos, D. (1061) 253
Bursaux, E., see Yannoukakos, D. (1066) 70
Büsen, W., see Vonwirth, H. (1087) 31
Busquets, M., see Imperial, S. (1077) 72
Bussolati, O., Rotoli, B.M., Laris, P.C., Dall'Asta, V. and Gazzola, G.C.
The preferential interaction of L-threonine with transport system ASC in cultured human fibroblasts (1070) 305
Bussolino, F., see Heller, R. (1093) 55
Bustelo, X.R., see Otero, A. (1092) 184
Butler, A., see Soedjak, H.S. (1079) 1
Butterfield, D.A., see Yacko, M.A. (1064) 7
Byers, D.M., see George, T.P. (1084) 185
Byler, D.M., see Jacobsohn, M.K. (1073) 1
Bylina, E.J., see Peloquin, J.M. (1056) 85
Byrne, E., see Collins, S. (1097) 309

C

Cabañas, C., Lastres, P., Bellón, T., Aller, P., Figdor, C.G., Corbi, A. and Bernabeu, C.
Induction of LFA-1-mediated homotypic adhesions in promonocytic U-937 cells occurs independently of cell differentiation (1092) 165
Cabedo, H., see Sáez, G.T. (1092) 325
Cable, E.E., Healey, J.F., Greene, Y., Evans, C.-O. and Bonkovsky, H.L.
Synergistic induction of δ-aminolevulinate synthase by glutethimide and iron: relationship to the synergistic induction of heme oxygenase (1080) 245
Caffrey, M.S., see Cusanovich, M.A. (1058) 67
Cai, Q., see Tolosa de Talamoni, N. (1094) 224
Caiafa, P., Reale, A., Allegra, P., Rispoli, M., D'Erme, M. and Strom, R.
Histones and DNA methylation in mammalian chromatin. Differential inhibition by histone H_1 (1090) 38
Calcagno, M., see Altamirano, M.M. (1076) 266
Calderón, V., see Cerbón, J. (1067) 139
Calhoun IV, J.C., see Chapman, A.E. (1077) 265

Callaci, J.J. and Smarrelli, Jr., J.
Regulation of the inducible nitrate reductase isoform from Soybeans (1088) 127
Callender, R., see Yue, K.T. (1078) 296
Calza, R.E., see Li, X. (1080) 148
Camakaris, J., see Mercer, J.F.B. (1097) 205
Cambrey, A.D., see McAnulty, R.J. (1091) 231
Camejo, G., Hurt, E., Wiklund, O., Rosengren, B., López, F. and Bondjers, G.
Modifications of low-density lipoprotein induced by arterial proteoglycans and chondroitin-6-sulfate (1096) 253
Camejo, G., see Olsson, U. (1097) 37
Cameselle, J.C., see García-Agúndez, J.A. (1073) 402
Camougrand, N.M., Zniber, S. and Guérin, M.G.
The antimycin-A-insensitive respiratory pathway of *Candida parapsilosis*: evidence for a second quinone involved specifically in its functioning (1057) 124
Campa, J.S., see McAnulty, R.J. (1091) 231
Campbell, A., see Lin, K.-C. (1090) 317
Campione, A.L., see Van Winkle, L.J. (1068) 231
Campos, F., Corona-Reyes, M. and Zinker, S.
The yeast 5S rRNA binding robosomal protein YL3 is phosphorylated in vivo (1087) 142
Canada, R.G. and Carpentier, R.G.
Physicochemical characteristics of the terbium-adriamycin complex and its effects on the sinus node automaticity (1073) 136
Candelier, L., see Bard, J.M. (1082) 170
Canepa, L., Ferraris, A.M., Miglino, M. and Gaetani, G.F.
Bound and unbound pyridine dinucleotides in normal and glucose-6-phosphate dehydrogenase-deficient erythrocytes (1074) 101
Cánovas-Muñoz, M.D., Muñoz-Delgado, E. and Vidal, C.J.
Acetylcholinesterase is orientated facing the cytoplasmic side in membranes derived from sarcoplasmic reticulum (1076) 259
Cantafora, A., see Santini, M.T. (1070) 27
Canters, G.W., see Lommen, A. (1076) 439
Cantrill, R.C., see Huang, Y.-S. (1082) 319
Cao, J., Vermaas, W.F.J. and Govindjee
Arginine residues in the D2 polypeptide may stabilize bicarbonate binding in photosystem II of *Synechocystis* sp. PCC 6803 (1059) 171
Capaldi, R.A., see Mendel-Hartvig, J. (1060) 115
Capaldi, R.A., see Rizzuto, R. (1089) 386
Capaldi, R.A., see Rizzuto, R. (1090) 125
Capeillere-Blandin, C., Masson, A. and Descamps-Latscha, B.
Molecular characteristics of cytochrome b_{558} isolated from human granulocytes, monocytes and HL60 and U937 cells differentiated into monocyte/macrophages (1094) 55
Capel, M., see James, V.J. (1078) 19
Capozza, G., see Guerrieri, F. (1059) 348
Capurro, C., Dorr, R. and Parisi, M.
Increased glucose transfer in the rat jejunum after dietary potassium loading: effect of amiloride (1065) 1
Caradonna, S., see Muller, S.J. (1088) 197
Carcereri De Prati, A., see Berton, G. (1091) 101
Carcereri De Prati, A., see Cesarone, C.F. (1087) 241
Cárdenas, J., see Aguilar, M.R. (1073) 463
Cárdenas, J., see Alamillo, J.M. (1076) 203
Cárdenas, J., see Galván, A. (1074) 6
Cardone, A., see Quesada, P. (1079) 79
Cardot, P., see Ribeiro, A. (1087) 219
Carelli, I., see Ragg, E. (1076) 37
Carelli, I., see Ragg, E. (1076) 49
Carelli, V., see Ragg, E. (1076) 37
Caride, A.J., Penniston, J.T. and Rossi, J.P.F.C.
The calmodulin-binding domain as an endogenous inhibitor of the *p*-nitrophenylphosphatase activity of the Ca^{2+} pump from human red cells (1069) 94
Caride, A.J., see Rossi, J.P.F.C. (1061) 49
Carini, R., see Albano, E. (1091) 310
Carlson, T.L. and Kottke, B.A.
Effect of coconut oil on plasma apo A-I levels in WHHL and NZW rabbits (1083) 221
Carman, G.M., see Gaynor, P.M. (1090) 326
Carmeliet, E., see Jorissen, M. (1096) 52
Carney, J.P., see Grabowski, D.T. (1090) 115
Carnicelli, D., see Bolognesi, A. (1087) 293
Carnie, J., see Serra, F. (1097) 289
Caron, M.G., see Lomasney, J.W. (1095) 127
Carozzi, A., see Meldrum, E. (1092) 49
Carpenter, B.G., see Heads, R.J. (1079) 15
Carpentier, R.G., see Canada, R.G. (1073) 136
Carr, T.P., see Yount, N.Y. (1082) 79
Carrasquer, G., Wu, X., Rehm, W.S., Schwartz, M. and Dinno, M.A.
Effect of amphotericin B and Cl^- removal on basolateral membrane K^+ conductance in frog corneal epithelium (1069) 181
Carrasquer, G., see Schwartz, M. (1062) 113
Carreau, J.-P., see Demirkapi, N. (1082) 49
Carrera, C.J., see Carson, D.A. (1091) 22
Carrère, J., see Barthe, C. (1096) 175
Carretero, O.A., see Mindroiu, T. (1076) 9
Carrier, L., Villaz, M. and Dupont, Y.
Abnormal rapid Ca^{2+} release from sarcoplasmic reticulum of malignant hyperthermia susceptible pigs (1064) 175
Carrillo, M.-C., Nokubo, M., Kitani, K., Satoh, K. and Sato, K.
Age-related alterations of enzyme activities and subunits of hepatic glutathione *S*-transferases in male and female Fischer-344 rats (1077) 325
Carson, D.A., Carrera, C.J., Wasson, D.B. and Iizasa, T.
Deoxyadenosine-resistant human T lymphoblasts with elevated 5′-nucleotidase activity (1091) 22
Carstam, R., Brinck, C., Hindemith-Augustsson, A., Rorsman, H. and Rosengren, E.
The neuromelanin of the human substantia nigra (1097) 152
Carter, B.E., see Wyss, P.A. (1070) 300
Carter, K.C., Post, D.J. and Papaconstantinou, J.
Differential expression of the mouse α_1-acid glycoprotein genes (AGP-1 and AGP-2) during inflammation and aging (1089) 197
Cartwright, A.J., see Man, N. (1076) 245
Carty, R.P., see Pincus, M.R. (1097) 133
Carulli, N., see Tripodi, A. (1083) 298
Caruso, C., Rutigliano, B., Romano, M. and Di Prisco, G.
The hemoglobins of the cold-adapted Antarctic teleost *Cygnodraco mawsoni* (1078) 273
Casas, J.L., see Acosta, M. (1077) 273
Casey, P.A., see Hoganson, C.W. (1057) 399
Casey, W.M., Burgess, J.P. and Parks, L.W.
Effect of sterol side-chain structure on the feed-back control of sterol biosynthesis in yeast (1081) 279
Casini, A., see Ragg, E. (1076) 37
Casini, A., see Ragg, E. (1076) 49
Cass, C.E., see Jhun, B.H. (1061) 149
Cassagne, C., Juguelin, H. and Boiron, F.
Phospholipid acylation by mouse sciatic nerve microsomes (1070) 119
Cassagne, C., see Bertho, P. (1070) 127
Cassagne, C., see Juguelin, H. (1068) 41
Cassiman, J.-J., see Devriendt, K. (1088) 95
Cassiman, J.-J., see Jorissen, M. (1096) 52
Castan, I., see Viallard, V. (1085) 265
Castaño, A., see Ayala, A. (1084) 48
Casteels, R., see Eggermont, J.A. (1088) 448
Casteels, R., see Verbist, J. (1063) 1
Castell, J.V., see López, M.P. (1094) 200
Castellani, L.W., Wilcox, H.C. and Heimberg, M.

Relationships between fatty acid synthesis and lipid secretion in the isolated perfused rat liver: Effects of hyperthyroidism, glucose and oleate (1086) 197
Castle, C.K., see Pape, M.E. (1086) 326
Castranova, V., see Rabovsky, J. (1095) 223
Castresana, J., Valpuesta, J.M., Arrondo, J.L.R. and Goñi, F.M.
An infrared spectroscopic study of specifically deuterated fatty-acyl methyl groups in phosphatidylcholine liposomes (1065) 29
Caswell, A.M., Leong, W.S. and Russell, R.G.G.
Evidence for the presence of P_2-purinoceptors at the surface of human articular chondrocytes in monolayer culture (1074) 151
Catalioto, R.-M., Gaillard, D., Maclouf, J., Ailhaud, G. and Negrel, R.
Autocrine control of adipose cell differentiation by prostacyclin and $PGF_{2\alpha}$ (1091) 364
Catapano, A.L., see Bernini, F. (1083) 94
Caterson, I.D., see Blair, S.C. (1085) 385
Cates, G.A.
Analysis of the phosphorylation state of a collagen-binding heat-shock glycoprotein from L6 myoblasts by isoelectric focusing (1073) 521
Cattaneo, M.G., see Morello, L. (1092) 397
Caughey, W.S., see Lee, H.C. (1076) 317
Cavallini, L., see Zoccarato, F. (1092) 72
Cawston, T., see McLaughlin, B. (1073) 295
Cawston, T.E., see Wright, J.K. (1094) 207
Cech, D., see Kubareva, E.A. (1088) 395
Cederbaum, A.I., see Dicker, E. (1073) 316
Cederbaum, A.I., see Puntarulo, S. (1074) 12
Cedola, M., see Corradini, S.G. (1086) 125
Celadon, M., see Biagi, P.L. (1083) 187
Čénas, N.K., Bironaité, D.A., Kulys, J.J. and Sukhova, N.M.
Interaction of nitrofurans with glutathione reductase (1073) 195
Čenas, N.K., see Bironaite, D.A. (1060) 203
Centelles, J.J., Kinne, R.K.H. and Heinz, E.
Energetic coupling of Na-glucose cotransport (1065) 239
Cerbón, J. and Calderón, V.
Changes of the compositional asymmetry of phospholipids associated to the increment in the membrane surface potential (1067) 139
Cerione, R.A.
Reconstitution of receptor/GTP-binding protein interactions (1071) 473
Cerretelli, P., see Zecca, L. (1075) 1
Cervato, G., see Viani, P. (1064) 24
Ceryak, S., see Malavolti, M. (1081) 106
Cesarone, C.F., Scarabelli, L., Scovassi, A.I., Izzo, R., Menegazzi, M., Carcereri De Prati, A., Orunesu, M. and Bertazzoni, U.
Changes in activity and mRNA levels of poly(ADP-ribose) polymerase during rat liver regeneration (1087) 241
Cestaro, B., see Viani, P. (1064) 24
Cevc, G.
Polymorphism of the bilayer membranes in the ordered phase and the molecular origin of the lipid pretransition and rippled lamellae (1062) 59
Chabannes, B., Hosni, R., Molière, P., Croset, M., Pacheco, Y., Perrin-Fayolle, M. and Lagarde, M.
Leukotriene B_4 level in neutrophils from allergic and healthy subjects stimulated by low concentration of calcium ionophore A23187. Effect of exogenous arachidonic acid and possible endogenous source (1093) 47
Chahinian, H., see Gargouri, Y. (1085) 322
Chajek-Shaul, T., see Friedman, G. (1089) 83
Chakrabarti, P., see Kundu, M. (1096) 205
Chambaz, J., see Ribeiro, A. (1086) 279
Chambaz, J., see Ribeiro, A. (1087) 219
Chan, A.P.Y., see Ho, W.K.K. (1090) 245
Chan, M.Y.-M., see Bergstrom, D.E. (1061) 95
Chan, W.Y., see Ho, W.K.K. (1088) 311
Chance, B., see Ikai, I. (1074) 289
Chander, A. and Wu, R.-D.
In vitro fusion of lung lamellar bodies and plasma membrane is augmented by lung synexin (1086) 157
Chang, C.-H., Jiang, B. and Douglas, J.G.
Calcium reveals different mechanisms of guanylate cyclase activation by atrial natriuretic factor and ATP in rat lung membranes (1093) 42
Chang, C.-H., see Liu, C.-S. (1077) 362
Chang, D.C., Gao, P.-Q. and Maxwell, B.L.
High efficiency gene transfection by electroporation using a radio-frequency electric field (1092) 153
Chang, D.C., see Zheng, Q. (1088) 104
Chang, K. and Roberts, J.K.M.
Cytoplasmic malate levels in maize root tips during K^+ ion uptake determined by ^{13}C-NMR spectroscopy (1092) 29
Chang, K., see Reiser, K.M. (1097) 55
Chang, P., see Postel, M. (1086) 95
Chang, P.L., see Shankaran, R. (1078) 251
Chang, T., Lin, C.-L., Chen, P.-H. and Chang, W.-C.
γ-Crystallin genes in carp: cloning and characterization (1090) 261
Chang, W.-C., see Chang, T. (1090) 261
Chang, W.-C., see Chen, H.-T. (1088) 315
Chang, W.-C., see Chiou, C.-S. (1087) 91
Chantry, D., see Lane, A. (1097) 161
Chap, H., see Collet, X. (1081) 211
Chap, H., see Marques-Vidal, P. (1082) 185
Chap, H., see Payrastre, B. (1056) 19
Chap, H., see Tercé, F. (1084) 69
Chapkin, R.S. and Coble, K.J.
Utilization of gammalinolenic acid by mouse peritoneal macrophages (1085) 365
Chapman, A.E., Copeland, P., Davidson, S. and Calhoun IV, J.C.
Diabetic BB/Wor rat haptoglobin exhibits a probable structural abnormality in Asn-linked oligosaccharides (1077) 265
Chapman, D.C., see Suzuki, S. (1074) 95
Chapman, D.J., Vass, I. and Barber, J.
Secondary electron transfer reactions of the isolated Photosystem II reaction centre after reconstitution with plastoquinone-9 and diacylglycerolipids (1057) 391
Chapman, M.J., see Nigon, F. (1083) 230
Charbonneau, M., see Grandin, N. (1091) 242
Charles, L.G., see Weinhold, P.A. (1086) 57
Chasteen, N.D., see Martin, D.M. (1076) 252
Chatterjee, T., see Sarkar, M. (1070) 198
Chatwani, S., see Goldenberg, H. (1067) 145
Chau, L.-Y. and Lin, J.-R.
Characterization of a monoclonal antibody which is an activator of rabbit platelets (1074) 118
Chaudhary, L.R. and Stocco, D.M.
Effect of different steroidogenic stimuli on protein phosphorylation and steroidogenesis in MA-10 mouse Leydig tumor cells (1094) 175
Chauvet, M., see Rimet, O. (1076) 435
Chávez, E., Moreno-Sánchez, R., Zazueta, C., Reyes-Vivas, H. and Arteaga, D.
Intramitochondrial K^+ as activator of carboxyatractyloside-induced Ca^{2+} release (1070) 461
Chazotte, B., see Gupte, S.S. (1069) 131
Chegini, S., see Goldenberg, H. (1067) 145
Chen, C.S., Papayannopoulos, I.A., Timmons, S., Chou, S.-H. and Thiagarajan, P.
A modified Arg-Asp-Val (RDV) peptide derived during the synthesis of Arg-Glu-Asp-Val (REDV), a tetrapeptide derived from

an alternatively spliced site in fibronectin, inhibits the binding of fibrinogen, fibronectin, von Willebrand factor and vitronectin to activated platelets (1075) 237
Chen, C.-S., Shieh, W.-R., Lu, P.-H., Harriman, S. and Chen, C.-Y.
Metabolic stereoisomeric inversion of ibuprofen in mammals (1078) 411
Chen, C.-Y., see Chen, C.-S. (1078) 411
Chen, H.-T., Chiou, C.-S. and Chang, W.-C.
Cloning and characterization of the carp prolactin gene (1088) 315
Chen, H.-T., see Chiou, C.-S. (1087) 91
Chen, J.-M., see Liu, C.-S. (1077) 362
Chen, J.C., see Chen, J.H. (1087) 309
Chen, J.H., Chen, Z.Y., Chow, T.Y., Chen, J.C., Tan, S.T. and Hsu, W.H.
Nucleotide sequence and expression of the isoamylase gene from an isoamylase-hyperproducing mutant, *Pseudomonas amyloderamosa* JD210 (1087) 309
Chen, K., see Sentjurc, M. (1073) 329
Chen, M.-j., Sorette, M.P., Chiu, D.T.-Y. and Clark, M.R.
Prehemolytic effects of hydrogen peroxide and *t*-butylhydroperoxide on selected red cell properties (1066) 193
Chen, P.-H., see Chang, T. (1090) 261
Chen, Q., Florén, C.-H., Nilsson, Å. and Infante, R.
Regulation of chylomicron remnant uptake in the human hepatoma cell-line Hep G2. Role of the low-density lipoprotein receptor (1083) 173
Chen, S.-W., see Liu, C.-S. (1077) 362
Chen, T.T., see Unger, M.E. (1074) 371
Chen, Z., see Woffendin, C. (1090) 81
Chen, Z.Y., see Chen, J.H. (1087) 309
Chenu, C., see Maenz, D.D. (1069) 250
Chernoglazov, V.M., see Gusakov, A.V. (1073) 481
Chernomordik, L.V., Papahadjopoulos, D. and Tsong, T.Y.
Increased binding of liposomes to cells by electric treatment (1070) 193
Chernomordik, L.V., see Gass, G.V. (1093) 162
Chersi, A., see Evangelista, M. (1074) 214
Cheung, B.S., see Kwak, J.Y. (1076) 369
Cheval, L., see El Mernissi, G. (1064) 205
Chi, L.-M. and Wu, W.
Mechanism of hemolysis of red blood cell mediated by ethanol (1062) 46
Chia, W.N., see Barstow, D.A. (1087) 73
Chiancone, E., see Spagnuolo, C. (1074) 270
Chiariotti, L., Wells, V., Bruni, C.B. and Mallucci, L.
Structure and expression of the negative growth factor mouse β-galactoside binding protein gene (1089) 54
Chiba, P., see Kraupp, M. (1070) 157
Chiesa, R., see Reinach, P.S. (1068) 1
Chihara, T., see Uehara, T. (1088) 41
Chijiiwa, K., Koga, A., Yamasaki, T., Shimada, K., Noshiro, H. and Nakayama, F.
Fibronectin: a possible factor promoting cholesterol monohydrate crystallization in bile (1086) 44
Chilton, F.H., see Nakamura, T. (1085) 191
Chilton, F.H., see Triggiani, M. (1084) 41
Chilton, F.H., see Winkler, J.D. (1081) 339
Chinchetru, M.A., see Yeh, C.-K. (1090) 173
Chiou, C.-S., Chen, H.-T. and Chang, W.-C.
The complete nucleotide sequence of the growth-hormone gene from the common carp (*Cyprinus carpio*) (1087) 91
Chiou, C.-S., see Chen, H.-T. (1088) 315
Chishti, S.B., see Cohen, S.G. (1076) 112
Chiu, A.L.H., see Sharom, F.J. (1094) 35
Chiu, D.T.-Y., see Chen, M.-j. (1066) 193
Chobert, J.-M., Dalgalarrondo, M., Dufour, E., Bertrand-Harb, C. and Haertlé, T.
Influence of pH on the structural changes of β-lactoglobulin studied by tryptic hydrolysis (1077) 31
Chock, P.B., see Ubom, G.A. (1077) 91
Choi, N.-H., see Nakano, Y. (1074) 326
Choi, Y.-L., Kawase, S., Kawamukai, M., Sakai, H. and Komano, T.
Regulation of *glpD* and *glpE* gene expression by a cyclic AMP-cAMP receptor protein (cAMP-CRP) complex in *Escherichia coli* (1088) 31
Chong, A.K.J., Pegg, M.S. and Von Itzstein, M.
Influenza virus sialidase: effect of calcium on steady-state kinetic parameters (1077) 65
Chonn, A., see Allen, T.M. (1061) 56
Chonn, A., Semple, S.C. and Cullis, P.R.
Separation of large unilamellar liposomes from blood components by a spin column procedure: towards identifying plasma proteins which mediate liposome clearance in vivo (1070) 215
Chopra, A.K., Peterson, J.W. and Prasad, R.
Nucleotide sequence analysis of *pur*H and *pur*D genes from *Salmonella typhimurium* (1090) 351
Chottard, G., see Mus-Veteau, I. (1060) 159
Chou, S.-H., see Chen, C.S. (1075) 237
Chou, T.-M., see Hung, S.-H. (1090) 255
Chow, B.K.-C., see Banfield, D.K. (1089) 262
Chow, M., see Cohen, S. (1063) 95
Chow, S.C., Sisfontes, L., Jondal, M. and Björkhem, I.
Modification of membrane phospholipid fatty acyl composition in a leukemic T cell line: effects on receptor mediated intracellular Ca^{2+} increase (1092) 358
Chow, T.Y., see Chen, J.H. (1087) 309
Chow, W.S., Miller, C. and Anderson, J.M.
Surface charges, the heterogeneous lateral distribution of the two photosystems, and thylakoid stacking (1057) 69
Chrétien, M., see Nolet, S. (1089) 247
Christensen, E., Grønn, M., Hagve, T.-A. and Christophersen, B.O.
Omega-oxidation of fatty acids studied in isolated liver cells (1081) 167
Christensen, E., see Grønn, M. (1081) 85
Christensen, U., Sottrup-Jensen, L. and Harrit, N.
Pregnancy zone protein, a proteinase binding α-macroglobulin. Stopped-flow kinetic studies of its interaction with chymotrypsin (1076) 91
Christiansen, E.N., Lund, J.S., Rørtveit, T. and Rustan, A.C.
Effect of dietary $n-3$ and $n-6$ fatty acids on fatty acid desaturation in rat liver (1082) 57
Christiansen, E.N., see Mimouni, V. (1086) 349
Christie, W.W., see Graham, A. (1081) 151
Christophe, D., see Donda, A. (1090) 235
Christophe, J., see Gourlet, P. (1066) 245
Christophe, J., see Winand, J. (1080) 181
Christophersen, B., see Hagve, T.-A. (1084) 251
Christophersen, B.O., see Christensen, E. (1081) 167
Christophersen, B.O., see Grønn, M. (1081) 85
Christophersen, P. and Bennekou, P.
Evidence for a voltage-gated, non-selective cation channel in the human red cell membrane (1065) 103
Christopherson, R.I., see Schöbitz, B. (1095) 95
Chu, J.W.K., see Sharom, F.J. (1094) 35
Chuang, J.-L., see Tsai, I.-H. (1080) 59
Chumachenko, Y.V., see Sytnik, A.I. (1079) 123
Chuman, T., see Tsuge, H. (1078) 77
Chun, A., see Summers, B. (1091) 329
Chung, C.H., see Tamura, T. (1089) 95
Chung, S.I., Park, M.H., Folk, J.E. and Lewis, M.S.

Eukaryotic initiation factor 5A: the molecular form of the hypusine-containing protein from human erythrocytes (1076) 448
Church, F.C., see Hoffman, M. (1095) 78
Church, S.L.
Manganese superoxide dismutase: nucleotide and deduced amino acid sequence of a cDNA encoding a new human transcript (1087) 250
Churchich, J.E., see Kim, Y.T. (1077) 187
Ciaccio, P.J., Graves, P.E., Bourque, D.P., Glinsmann-Gibson, B. and Halpert, J.R.
cDNA and deduced amino acid sequences of a dog liver cytochrome *P*-450 of the IIIA gene subfamily (1088) 319
Ciancaglini, P., see Say, J.C. (1074) 256
Ciarcia, G., see Quesada, P. (1079) 79
Ciechanover, A., see DeMartino, G.N. (1073) 299
Cisneros, R.J., see Zhang, H. (1077) 35
Citro, G., see Evangelista, M. (1074) 214
Ciuffi, K., see Say, J.C. (1074) 256
Claassen, E., see Zegers, N.D. (1073) 23
Claes, V., Taquet, A.N., Kettmann, R. and Burny, A.
Sequence analysis of the pig phosphoglucose isomerase gene promoter region (1087) 339
Claeys, D., see Szewczyk, A. (1073) 209
Claeys, M.R., see Czapla, T.H. (1077) 400
Clandinin, M.T., see Thomson, A.B.R. (1084) 122
Clapper, M.L., Hoffman, S.J. and Tew, K.D.
Glutathione *S*-transferases in normal and malignant human colon tissue (1096) 209
Claret, M., see Gascard, P. (1069) 27
Clark, C.M., see Goodlad, G.A.J. (1097) 166
Clark, J.B., see Harvey, S.A.K. (1073) 486
Clark, M.G., see Rattigan, S. (1094) 217
Clark, M.R., see Chen, M.-j. (1066) 193
Clarke, A.R., see Barstow, D.A. (1087) 73
Clarke, R.B., see Duggleby, R.G. (1080) 231
Clausen, C., see Lewis, S.A. (1070) 99
Clavey, V., see Bard, J.M. (1082) 170
Clay, K.L., Johnson, C. and Worthen, G.S.
Biosynthesis of platelet activating factor and 1-*O*-acyl analogues by endothelial cells (1094) 43
Clay, K.L., see Bratton, D.L. (1062) 24
Cleary, P.P., see Bohnsack, J.F. (1079) 222
Clegg, R.A., see Small, C.A. (1082) 251
Clerici, C., Soler, P. and Saumon, G.
Sodium-dependent phosphate and alanine transports but sodium-independent hexose transport in type II alveolar epithelial cells in primary culture (1063) 27
Cliffe, S., see Fawer, M.S. (1076) 15
Coakley, J., see McConchie, S.M. (1096) 26
Coats, W.S., see Newgard, C.B. (1090) 333
Coble, K.J., see Chapkin, R.S. (1085) 365
Cocca, E., see Sannia, G. (1073) 114
Coccetti, P., see Frascotti, G. (1089) 206
Cock, J.M., see Wootton, J.C. (1057) 157
Cockcroft, S., see Nielson, C.P. (1095) 83
Cockshutt, A.M., Absolom, D.R. and Possmayer, F.
The role of palmitic acid in pulmonary surfactant: enhancement of surface activity and prevention of inhibition by blood proteins (1085) 248
Cockshutt, A.M. and Possmayer, F.
Lysophosphatidylcholine sensitizes lipid extracts of pulmonary surfactant to inhibition by serum proteins (1086) 63
Codogno, P., see Botti, J. (1093) 13
Coenjaerts, F.E.J., De Vries, E., Pruijn, G.J.M., Van Driel, W., Bloemers, S.M., Van der Lugt, N.M.T. and Van der Vliet, P.C.
Enhancement of DNA replication by transcription factors NFI and NFIII/Oct-1 depends critically on the positions of their binding sites in the adenovirus origin of replication (1090) 61
Coffee, K.A., see Geisel, J. (1085) 15
Cogdell, R.J., see Deinum, G. (1060) 125
Cohen, J.B., see Cohen, S.G. (1076) 112
Cohen, P. and Hardie, D.G.
The actions of cyclic AMP on biosynthetic processes are mediated indirectly by cyclic AMP-dependent protein kinase (1094) 292
Cohen, P., see Sola, M.M. (1094) 211
Cohen, P.T.W., see Da Cruz e Silva, E.F. (1089) 269
Cohen, P.T.W., see McPartlin, A.E. (1088) 308
Cohen, S., Bañó, M.C., Chow, M. and Langer, R.
Lipid–alginate interactions render changes in phospholipid bilayer permeability (1063) 95
Cohen, S.G., Chishti, S.B., Bell, D.A., Howard, S.I., Salih, E. and Cohen, J.B.
General occurrence of binding to acetylcholinesterase-substrate complex in noncompetitive inhibition and in inhibition by substrate (1076) 112
Colaianni, G., see Guerrieri, F. (1059) 348
Cole, D.E.C. and Rastogi, N.
Sulfate transport in human placenta: further evidence for a sodium-independent mechanism (1064) 287
Coleman, R.A., see Williams, M.L. (1096) 162
Coletta, M., see Congiu Castellano, A. (1080) 119
Coli, M., see Fini, C. (1075) 20
Collado-Escobar, D., see Fonteriz, R.I. (1093) 1
Colledge, W.H. and McBurney, M.W.
Search of the 5′ untranslated region of the human cardiac actin gene for segments controlling translation (1087) 39
Collet, X., Vieu, C., Chap, H. and Perret, B.-P.
Behaviour of phospholipase modified-HDL towards cultured hepatocytes. II. Increased cell cholesterol storage and bile acid synthesis (1081) 211
Collet, X., see Marques-Vidal, P. (1082) 185
Collins, A., see Barton, P. (1090) 265
Collins, F., see McDonald, J.R. (1090) 70
Collins, J., see Bout, A. (1090) 43
Collins, J.H., see Wright, L.S. (1079) 174
Collins, J.M. and Grogan, W.M.
Comparisons of steady-state anisotropy of the plasma membrane of living cells with different probes (1067) 171
Collins, P., see Owens, D. (1082) 303
Collins, S., Rudduck, C., Marzuki, S., Dennett, X. and Byrne, E.
Mitochondrial genome distribution in histochemically cytochrome *c* oxidase-negative muscle fibres in patients with a mixture of deleted and wild type mitochondrial DNA (1097) 309
Collins, S., see Hromas, R. (1090) 241
Colomer, D., Corrons, J.L.L.V. and Bartrons, R.
Effect of TPA on fructose 2,6-bisphosphate levels and protein kinase C activity in B-chronic lymphocytic leukemia (B-CLL) (1097) 270
Colonna, R., see Massari, S. (1067) 131
Combarnous, Y., see Martinat, N. (1077) 339
Comly, M.E., see Argoff, C.E. (1096) 319
Compadre, C.M., Hansch, C., Klein, T.E., Petridou-Fischer, J., Dias Selassie, C., Smith, R.N., Steinmetz, W., Yang, C.-Z. and Yang, G.-Z.
Separation of electronic and hydrophobic effects for the papain hydrolysis of substituted *N*-benzoylglycine esters (1079) 43
Condò, S.G., see Petruzzelli, R. (1076) 221
Congiu Castellano, A., Della Longa, S., Bianconi, A., Barteri, M., Burattini, E., Ascenzi, P., Coletta, M., Santucci, R. and Amiconi, G.
Influence of allosteric effectors on the heme conformation of

dromedary ferrous nitrosylhemoglobin detected by XANES spectroscopy (1080) 119
Connell, J.M.C., see Livingstone, C. (1096) 127
Connell, K.E., see Saalman, E. (1064) 124
Connor, E., see Wyss, P.A. (1070) 300
Connor, J. and Schroit, A.J.
Transbilayer movement of phosphatidylserine in erythrocytes. Inhibitors of aminophospholipid transport block the association of photolabeled lipid to its transporter (1066) 37
Conricode, K.M. and Ochs, R.S.
Vasopressin stimulates pyruvate utilization through a Ca^{2+}-dependent mechanism and lactate formation by a protein kinase C-dependent mechanism in isolated rat hepatocytes (1095) 161
Conti, F., see Miccheli, A. (1093) 29
Conti, F., see Miccheli, A. (1095) 90
Conzen, C., see Preis, D. (1090) 133
Cook, H.W., see George, T.P. (1084) 185
Cook, J.A., see Geisel, J. (1085) 15
Cook, K.M., see Mayes, S.R. (1060) 1
Cook, M., see Lane, A. (1097) 161
Cook, N.J., see Friedel, U. (1061) 247
Cook, S.J. and Wakelam, M.J.O.
Hydrolysis of phosphatidylcholine by phospholipase D is a common response to mitogens which stimulate inositol lipid hydrolysis in Swiss 3T3 fibroblasts (1092) 265
Cooke, D.T., Munkonge, F.M., Burden, R.S. and James, C.S.
Fluidity and lipid composition of oat and rye shoot plasma membrane: effect of sterol perturbation by xenobiotics (1061) 156
Coombe, D.R., see Parish, C.R. (1073) 56
Cooney, G.J., see Blair, S.C. (1085) 385
Cooper, C.E., see Moody, A.J. (1059) 189
Cooper, D.G., see Sheppard, J.D. (1064) 13
Cooper, P. and Meddings, J.B.
Erythrocyte membrane fluidity in malignant hyperthermia (1069) 151
Copeland, N.G., see Tominaga, S.-i. (1090) 1
Copeland, P., see Chapman, A.E. (1077) 265
Corbi, A., see Cabañas, C. (1092) 165
Córdoba, F., see Galván, A. (1074) 6
Coremans, J., see De Bisschop, E. (1094) 147
Corey, E.J., see Laneuville, O. (1084) 60
Cornelius, F.
Functional reconstitution of the sodium pump. Kinetics of exchange reactions performed by reconstituted Na/K-ATPase (1071) 19
Cornelius, F. and Skou, J.C.
The effect of cytoplasmic K^+ on the activity of the Na^+/K^+-ATPase (1067) 227
Cornelius, F., see Halperin, J.A. (1070) 497
Corona, N., see Moreno-Sánchez, R. (1060) 284
Corona-Reyes, M., see Campos, F. (1087) 142
Coroneos, E., Gordon, J.W., Kelly, S.L., Wang, P.D. and Sim, E.
Drug metabolising *N*-acetyltransferase activity in human cell lines (1073) 593
Corradini, S.G., Alvaro, D., Giacomelli, L., Cedola, M. and Angelico, M.
Differential patterns of lipid–protein association in fast and slow cholesterol nucleating human gallbladder biles: implications for cholesterol nucleation from biliary lipid carriers (1086) 125
Correas, I., see Nieto, A. (1096) 197
Corrie, A.R., Nugent, J.H.A. and Evans, M.C.W.
Identification of EPR signals from the states $Q_A^{\cdot-}Q_B^{\cdot-}$ and $Q_B^{\cdot-}$ in Photosystem II from *Phormidium laminosum* (1057) 384
Corrons, J.L.L.V., see Colomer, D. (1097) 270
Corsini, A., see Bernini, F. (1083) 94
Cortas, N., Elstein, D., Markowitz, D. and Edelman, I.S.
Anomalous mobilities of Na,K-ATPase α subunit isoforms in SDS-PAGE: identification by N-terminal sequencing (1070) 223
Cortés, A., see Imperial, S. (1077) 72
Cory, S., see Adams, J.M. (1072) 9
Cosgrove, D.E. and Cox, G.S.
Effects of sodium butyrate and 5-azacytidine on DNA methylation in human tumor cell lines: variable response to drug treatment and withdrawal (1087) 80
Coso, O., see De Boland, A.R. (1094) 238
Cossins, A.R., see Wodtke, E. (1064) 343
Costa, C., see Moura, J.J.G. (1058) 61
Costa, P.P., see Almeida, M.R. (1097) 224
Costas, M.J., see García-Agúndez, J.A. (1073) 402
Costello, P.B., see Baer, A.N. (1085) 45
Côté, Y.P., Picher, M., St-Jean, P., Béliveau, R., Potier, M. and Beaudoin, A.R.
Identification and localization of ATP-diphosphohydrolase (apyrase) in bovine aorta: relevance to vascular tone and platelet aggregation (1078) 187
Cotecchia, S., see Lomasney, J.W. (1095) 127
Cottin, P., Poussard, S., Desmazes, J.P., Georgescauld, D. and Ducastaing, A.
Free calcium and calpain I activity (1079) 139
Cousins, C.J., see Herskovits, T.T. (1076) 71
Couture, R., see Laneuville, O. (1084) 60
Cox, G.B., see Munn, A.L. (1060) 82
Cox, G.S., see Cosgrove, D.E. (1087) 80
Cox, R.P., see Miller, M. (1057) 187
Crabbé, J., see Devuyst, O. (1066) 268
Crabbé, J., see Granitzer, M. (1069) 87
Craelius, W., see Harris, D.R. (1095) 175
Craig, F.M., Archer, C.W. and Murphy, G.
Isolation and characterisation of a chicken gelatinase (type IV collagenase) (1074) 243
Craik, J.D., see Jhun, B.H. (1061) 149
Crane, D.I., see Klucis, E. (1074) 294
Crane, F.L., see Bérczi, A. (1073) 562
Crane, F.L., see Morré, D.J. (1057) 140
Cranmer, S.L., see Poole, R.C. (1070) 69
Crawford, J.M., Lin, Y.J., Teicher, B.A., Narciso, J.P. and Gollan, J.L.
Physical and biological properties of fluorescent dansylated bile salt derivatives: the role of steroid ring hydroxylation (1085) 223
Crawford, N., see Eggleton, P. (1094) 309
Criddle, R.S., see Summers, B. (1091) 329
Crimi, M., see Degli Esposti, M. (1056) 243
Cristol, L., see Jialal, I. (1086) 134
Critchley, A.J., see Lowe, A.G. (1069) 223
Critchley, D.R., see Griffiths, S.L. (1075) 154
Critchlow, M., see Davies, D.E. (1084) 29
Croall, D.E., see DeMartino, G.N. (1073) 299
Crommelin, D.J.A., see Kersten, G.F.A. (1062) 165
Crompton, M., see Brown, G.C. (1057) 273
Croset, M., see Chabannes, B. (1093) 47
Croset, M., see Sarda, N. (1081) 75
Cross, A.R. and Jones, O.T.G.
Enzymic mechanisms of superoxide production (1057) 281
Crouch, E.C., see Reiser, K.M. (1097) 55
Crowe, J.H., see Crowe, L.M. (1064) 267
Crowe, L.M. and Crowe, J.H.
Solution effects on the thermotropic phase transition of unilamellar liposomes (1064) 267
Crowe, P.T., see Riley, S.A. (1066) 175
Crowther, R.A.
Structural aspects of pathology in Alzheimer's disease (1096) 1
Cruz, P., see Fujise, H. (1094) 51

Cseko, J., see Kispal, G. (1085) 217
Cubellis, M.V., see Birolo, L. (1080) 198
Cucurou, C., Battioni, J.P., Daniel, R. and Mansuy, D.
Peroxidase-like activity of lipoxygenases: different substrate specificity of potato 5-lipoxygenase and soybean 15-lipoxygenase and particular affinity of vitamin E derivatives for the 5-lipoxygenase (1081) 99
Cukierman, S., see Krawczyk, J. (1063) 60
Cullis, P.R., see Chonn, A. (1070) 215
Cummins, I., see Murphy, D.J. (1088) 86
Cunningham, C.C., see Spach, P.I. (1056) 40
Curtiss, A., see Gross, E.L. (1056) 166
Cusack, S., see Leberman, R. (1089) 287
Cusanovich, M.A. and Caffrey, M.S.
Biological electron transfer: progress and future directions (1058) 67
Cusanovich, M.A., see Motie, M. (1076) 97
Cuthbert, A.W., see Henderson, R.M. (1097) 219
Cutts, L., see Bulva, C.J. (1094) 134
Cymbalyuk, E.S., see Sabelnikov, A.G. (1066) 21
Czapla, T.H., Claeys, M.R., Morgan, T.D., Kramer, K.J., Hopkins, T.L. and Hawley, M.D.
Oxidative decarboxylation of 3,4-dihydroxymandelic acid to 3,4-dihydroxybenzaldehyde: electrochemical and HPLC analysis of the reaction mechanism (1077) 400
Czerwinski, R.M., see Staron, K. (1088) 36

D

Dabach, Y., see Stein, O. (1081) 238
Dabach, Y., see Stein, Y. (1084) 87
Da Cruz e Silva, E.F., Hughes, V., McDonald, P., Stark, M.J.R. and Cohen, P.T.W.
Protein phosphatase $2B_w$ and protein phosphatase Z are *Saccharomyces cerevisiae* enzymes (1089) 269
Da Graca Nascimento, M., see Rees, G.D. (1073) 493
Dai, J., see Panagia, V. (1064) 242
Daireaux, M., see Redini, F. (1093) 196
Dalal, K.B., Leven, R.M. and Yee, T.
Lipid and membrane fluidity abnormalities in platelets and megakaryocytes of the hereditary macrothrombocytopenic Wistar Furth rat (1070) 253
D'Alessandro, R., see Spagnuolo, C. (1074) 270
Dalgalarrondo, M., see Chobert, J.-M. (1077) 31
Dall'Asta, V., see Bussolati, O. (1070) 305
Daly, J.W., see Holbrook, P.G. (1084) 155
Damaschun, G., Damaschun, H., Gast, K., Gernat, C. and Zirwer, D.
Acid denatured apo-cytochrome *c* is a random coil: evidence from small-angle X-ray scattering and dynamic light scattering (1078) 289
Damaschun, H., see Damaschun, G. (1078) 289
Damen, J.E., Greenberg, A.H. and Wright, J.A.
Transformation and amplification of the K-fgf proto-oncogene in NIH-3T3 cells, and induction of metastatic potential (1097) 103
Damewood, G.P., see Masibay, A.S. (1090) 230
Dams, E., De Wolf, M. and Dierick, W.
Nucleotide sequence analysis of the CT operon of the *Vibrio cholerae* classical strain 569B (1090) 139
Dandrow, E.A., see Perrella, F.W. (1076) 209
Dang, C.V.
c-Myc oncoprotein function (1072) 103
Daniel, R., see Cucurou, C. (1081) 99
Daniel, R.M., see Patchett, M.L. (1077) 291
Daniel, W.L., see Shankaran, R. (1078) 251
Danks, D.M., see Mercer, J.F.B. (1097) 205
Danpure, C.J., Jennings, P.R. and Jansen, J.H.
Enzymological characterization of a putative canine analogue of primary hyperoxaluria type 1 (1096) 134
Da Prada, M., see Bertocci, B. (1080) 103
D'Arcangelo, U., see Grazia Tozzi, M. (1080) 160
Darcy-Vrillon, B., see Blachier, F. (1092) 304
Darkin-Rattray, S.J. and Ralph, R.K.
Evidence that a protein kinase enhances amsacrine mediated formation of topoisomerase II-DNA complexes in murine mastocytoma cell nuclei (1088) 285
Darnell, J.C., Osterman, D.G. and Saltiel, A.R.
Synthesis of phosphatidylinositol in rat liver microsomes is accompanied by the rapid formation of lysophosphatidylinositol (1084) 269
Darnell, J.C., Osterman, D.G. and Saltiel, A.R.
Fatty acid remodelling of phosphatidylinositol under conditions of de novo synthesis in rat liver microsomes (1084) 279
Darnell, J.C. and Saltiel, A.R.
Coenzyme A-dependent, ATP-independent acylation of 2-acyl lysophosphatidylinositol in rat liver microsomes (1084) 292
Darsinos, J.T., see Samouilidou, E.C. (1070) 343
Das, A.M. and Harris, D.A.
Control of mitochondrial ATP synthase in rat cardiomyocytes: effects of thyroid hormone (1096) 284
Das, A.T., see Van den Hoff, M.J.B. (1090) 249
Das, B.K., Agarwal, S.K. and Khan, M.Y.
Unfolding-refolding behaviour of chicken egg white ovomucoid and its correlation with the three domain structure of the protein (1076) 343
Das, D.K., Barua, P.K. and Jones, R.M.
Release of fatty acid-binding protein from ischemic-reperfused rat heart and its prevention by mepacrine (1073) 394
DasGupta, B.R., see Singh, B.R. (1077) 119
Datta, H., see Raymond, F. (1074) 217
Dau, H., Windecker, R. and Hansen, U.-P.
Effect of light-induced changes in thylakoid voltage on chlorophyll fluorescence of *Aegopodium podagraria* leaves (1057) 337
Daum, G., see Lafer, G. (1069) 139
Daum, G., see Szolderits, G. (1063) 197
Davidson, E., see Kariel, N. (1062) 70
Davidson, L., see Mauri, F. (1078) 63
Davidson, R.G., see Shankaran, R. (1078) 251
Davidson, S., see Chapman, A.E. (1077) 265
Davidson, W.S., see McLean, L.R. (1086) 106
Davies, A., see Takakura, Y. (1070) 1
Davies, A., see Takakura, Y. (1070) 11
Davies, D.E., Critchlow, M., Grainger, D.W., Reichert, A., Ringsdorf, H. and Lloyd, J.B.
Small unilamellar liposomes from mixed natural and polymeric phospholipids: stability and susceptibility to phospholipase A_2 (1084) 29
Davies, M.J.
Identification of a globin free radical in equine myoglobin treated with peroxides (1077) 86
Davis, C.C., see Bowmaster, T.A. (1091) 9
Davis, C.M., see Ross, R.T. (1056) 317
Davis, J.H., see Hamilton, K.S. (1062) 220
Davis, J.H., see Langlais, D.B. (1073) 236
Davis, T.R., Tabatabai, L., Bruns, K., Hamilton, R.T. and Nilsen-Hamilton, M.
Basic fibroblast growth factor induces 3T3 fibroblasts to synthesize and secrete a cyclophilin-like protein and β_2-microglobulin (1095) 145

Dawson, G., see Johnson, K.F. (1073) 120
Dawson, G., see McCabe, N.R. (1077) 133
Dawson, J.H., see Bracete, A.M. (1080) 264
Dawson, J.H., see Sono, M. (1078) 351
Dawson, P.A., see DeMartino, G.N. (1079) 29
Day, E.P., see Peterson, J. (1079) 161
Daya-Makin, M., Pelech, S.L., Levitzki, A. and Hudson, A.T.
Erbstatin and tyrphostins block protein-serine kinase activation and meiotic maturation of sea star oocytes (1093) 87
De, S.K., Enders, G.C. and Andrews, G.K.
Metallothionein mRNA stability in chicken and mouse cells (1090) 223
Deana, A.D., see Leader, D.P. (1091) 426
Deana, R., see Doni, M.G. (1094) 323
Deana, R., see Ruzzene, M. (1094) 121
Deana, R., see Zoccarato, F. (1092) 72
Deaven, L., see Hromas, R. (1090) 241
De Bisschop, E., Annaert, G., Luypaert, R., Coremans, J. and Osteaux, M.
Absolute quantification of ^{31}P muscle metabolites using NMRS with an internal standard and a high-Q, double-tuned coil (1094) 147
De Boer, A.D. and Weisbeek, P.J.
Chloroplast protein topogenesis: import, sorting and assembly (1071) 221
De Boland, A.R., Flawia, M., Coso, O. and Boland, R.
A guanine nucleotide-binding protein mediates 1,25-dihydroxyvitamin D-3-dependent rapid stimulation of Ca^{2+} uptake in skeletal muscle (1094) 238
De Bruijn, M.A.C., see Van Weely, S. (1096) 301
De Caluwé, G.L.J., see Jansen, J.J.M. (1089) 68
Decloitre, F., see Lechner, M.C. (1087) 157
De Crombrugghe, B., see Metsäranta, M. (1089) 241
DeFaria, E., see Quarfordt, S.H. (1082) 247
DeFelippis, M.R., see Weinstein, M. (1076) 173
Degani, H., see Bental, M. (1092) 21
Degani, H., see Ronen, S.M. (1095) 5
De Gier, J., see De Kroon, A.I.P.M. (1068) 111
Degli Esposti, M., Crimi, M., Körtner, C., Kröger, A. and Link, T.
The structure of the dihaem cytochrome *b* of fumarate reductase in *Wolinella succinogenes*: circular dichroism and sequence analysis studies (1056) 243
De Grip, W.J., see Jansen, J.J.M. (1089) 68
De Haas, G.H., see Bekkers, A.C.A.P.A. (1076) 374
De Haas, G.H., see Bekkers, A.C.A.P.A. (1089) 345
Deinum, G., Otte, S.C.M., Gardiner, A.T., Aartsma, T.J., Cogdell, R.J. and Amesz, J.
Antenna organization of *Rhodopseudomonas acidophila*: a study of the excitation migration (1060) 125
De Jersey, J., see Free, M.L. (1087) 205
De Jersey, J., see Keough, D.T. (1096) 95
De Jong, L., Van der Kraan, I. and De Waal, A.
The kinetics of the hydroxylation of procollagen by prolyl 4-hydroxylase. Proposal for a processive mechanism of binding of the dimeric hydroxylating enzyme in relation to the high k_{cat}/K_m ratio and a conformational requirement for hydroxylation of -X-Pro-Gly- sequences (1079) 103
De Jongh, G.J., see Schalkwijk, J. (1096) 148
De Kermel, A., see Geldwerth, D. (1082) 255
De Kinkelin, P., see Thiry, M. (1090) 345
Dekker, H.L., see Van den Bogert, C. (1097) 87
De Kroon, A.I.P.M., De Gier, J. and De Kruijff, B.
The effect of a membrane potential on the interaction of mastoparan X, a mitochondrial presequence, and several regulatory peptides with phospholipid vesicles (1068) 111
De Kruijff, B., see De Kroon, A.I.P.M. (1068) 111
De Kruijff, B., see De Wolf, F.A. (1096) 67
De Kruijff, B., see Vogt, T.C.B. (1069) 157
De la Rocha, S.R., see Padhye, N.V. (1077) 332
De La Rosa, J., Kotb, M. and Kredich, N.M.
Regulation of *S*-adenosylmethionine synthetase activity in cultured human lymphocytes (1077) 225
De Las Rivas, J., see Telfer, A. (1060) 106
De La Vega, F.M. and Mendoza-Figueroa, T.
Effects of probucol on lipid metabolism and secretion in long-term cultures of adult rat hepatocytes (1081) 293
Del Barrio, A.S., see Martínez, J.A. (1093) 111
Del Corso, A., see Grazia Tozzi, M. (1080) 160
Delfini, M., see Miccheli, A. (1093) 29
Delgado, C., see Senior, J. (1062) 77
De Lisle, R.C., see Kitagawa, M. (1073) 129
Della Longa, S., see Congiu Castellano, A. (1080) 119
Della Torre Piccinelli, A., see Andrietti, F. (1067) 103
Delporte, C., see Winand, J. (1080) 181
Delrieu, M.J. and Rosengard, F.
Changes in the S_0 and S_1 properties during dark adaptation in oxygen-evolving Photosystem-II-enriched thylakoid membranes (1057) 78
DeLuca, H.F., see Brown, T.A. (1073) 324
DeLuca, H.F., see Burgos-Trinidad, M. (1078) 226
DeLuca, H.F., see Strom, M. (1090) 299
De Luca, M., see Mastrocola, T. (1097) 275
DeLuca Jr., P.M., see Tsao, F.H.C. (1081) 141
DelValle, J., see Tsunoda, Y. (1091) 251
De Maio, A. and Buchman, T.G.
Mammalian liver contains an activity which mimics bacterial chloramphenicol acetyltransferase (1087) 303
DeMartino, G.N., McCullough, M.L., Reckelhoff, J.F., Croall, D.E., Ciechanover, A. and McGuire, M.J.
ATP-stimulated degradation of endogenous proteins in cell-free extracts of BHK 21/C13 fibroblasts. A key role for the proteinase, macropain, in the ubiquitin-dependent degradation of short-lived proteins (1073) 299
DeMartino, G.N., Orth, K., McCullough, M.L., Lee, L.W., Munn, T.Z., Moomaw, C.R., Dawson, P.A. and Slaughter, C.A.
The primary structures of four subunits of the human, high-molecular-weight proteinase, macropain (proteasome), are distinct but homologous (1079) 29
Demchenko, A.P., see Sytnik, A.I. (1079) 123
Demel, R.A., see Burger, K.N.J. (1065) 121
Demel, R.A., see Vogt, T.C.B. (1069) 157
Demirkapi, N., Carreau, J.-P. and Ghesquier, D.
Evidence against cytochrome b_5 involvement in liver microsomal fatty acid elongation (1082) 49
Dempsey, C.E. and Sternberg, B.
Reversible disc-micellization of dimyristoylphosphatidylcholine bilayers induced by melittin and [Ala-14]melittin (1061) 175
Denariaz, G., Payne, W.J. and LeGall, J.
The denitrifying nitrite reductase of *Bacillus halodenitrificans* (1056) 225
Denaro, M., see Sosio, M. (1089) 401
De Neef, P., see Gourlet, P. (1066) 245
Deng, W., see Zhang, H. (1077) 35
Dennett, X., see Collins, S. (1097) 309
Denovan-Wright, E.M. and Wright, J.M.
Immunologically-related nucleic acid-binding proteins associated with the nuclear matrix of *Physarum polycephalum* (1088) 25
Denyer, G.S., see Blair, S.C. (1085) 385
De Pinto, V., Zara, V., Benz, R., Gnoni, G.V. and Palmieri, F.
Characterization of pore-forming activity in liver mitochondria from *Anguilla anguilla*. Two porins in mitochondria? (1061) 279
De Pont, J.J.H.H.M., see Swarts, H.G.P. (1070) 283
De Pont, J.J.H.H.M., see Van der Hijden, H.T.W.M. (1061) 141
Derappe, C., see Feugeas, J.-P. (1066) 59

D'Erme, M., see Caiafa, P. (1090) 38
De Roo, C., see Schalkwijk, J. (1096) 148
Desai, V.C., see Padhye, N.V. (1077) 332
Descamps, J., see Wajcman, H. (1096) 60
Descamps-Latscha, B., see Capeillere-Blandin, C. (1094) 55
Descomps, B., see Aliau, S. (1085) 350
DeSilver, D.A., Benedict, M.A. and Ratner, D.I.
Effects of protein synthesis inhibition on the transcription and transcript stability of *Dictyostelium* prespore genes (1089) 309
Desir, G.V.
Reconstitution and partial purification of an amiloride-sensitive, cation channel from rabbit kidney (1067) 38
Desir, G.V., see Ellison, D.H. (1069) 241
Deslauriers, C., Powell, A.D., Fuchs, K. and Pauls, K.P.
Flow cytometric characterization and sorting of cultured *Brassica napus* microspores (1091) 165
Desmarais, Y., Ménard, L., Lagueux, J. and Poirier, G.G.
Enzymological properties of poly(ADP-ribose)polymerase: characterization of automodification sites and NADase activity (1078) 179
Desmazes, J.P., see Cottin, P. (1079) 139
De Smedt, H., see Van Den Bosch, L. (1092) 244
Desnos, C., see Schmidle, T. (1060) 251
Desseaux, V., Payan, F., Ajandouz, E.H., Svensson, B., Haser, R. and Marchis-Mouren, G.
Effect of limited proteolysis in the 8th loop of the barrel and of antibodies on porcine pancreas amylase activity (1080) 237
Destrempe, R., see Bouillon, M. (1097) 95
De Tullio, R., see Salamino, F. (1096) 265
Deuticke, B., Lütkemeier, P. and Poser, B.
Influence of phloretin and alcohols on barrier defects in the erythrocyte membrane caused by oxidative injury and electroporation (1067) 111
Deuticke, B., see Andrick, C. (1064) 235
Devars, S., see Moreno-Sánchez, R. (1060) 284
Devasagayam, T.P.A., Di Mascio, P., Kaiser, S. and Sies, H.
Singlet oxygen induced single-strand breaks in plasmid pBR322 DNA: the enhancing effect of thiols (1088) 409
Devaux, P.F., see Geldwerth, D. (1082) 255
Devaux, P.F., see Schroeder, F. (1066) 183
Devenish, R.J., see Moehario, L.H. (1097) 128
De Verneuil, H., see Fujita, H. (1090) 311
Devriendt, K., Van den Berghe, H., Cassiman, J.-J. and Marynen, P.
Primary structure of pregnancy zone protein. Molecular cloning of a full-length PZP cDNA clone by the polymerase chain reaction (1088) 95
DeVries, A.L., see Hansen, T.N. (1079) 169
De Vries, E., see Coenjaerts, F.E.J. (1090) 61
De Vries, H., see Taanman, J.-W. (1089) 283
De Vries, S., see Marres, C.A.M. (1057) 51
Devuyst, O., Beaujean, V. and Crabbé, J.
Aldosterone and chloride conductance of amphibian skin (1066) 268
De Waal, A., see De Jong, L. (1079) 103
De Wit, E., see Mulder, M. (1081) 308
DeWitt, D.L.
Prostaglandin endoperoxide synthase: regulation of enzyme expression (1083) 121
De Wolf, F.A., Maliepaard, M., Van Dorsten, F., Berghuis, I., Nicolay, K. and De Kruijff, B.
Comparable interaction of doxorubicin with various acidic phospholipids results in changes of lipid order and dynamics (1096) 67
De Wolf, M., see Dams, E. (1090) 139
Deyashiki, Y., see Hara, A. (1075) 61
Dhalla, N.S., see Panagia, V. (1064) 242
Dhalla, N.S., see Suzuki, S. (1074) 95
Dhar, A. and Shukla, S.D.
Release of a membrane surface glycoprotein from human platelets by phosphatidylinositol specific phospholipase(s) C (1091) 15
Dheur, I., see Thiry, M. (1090) 345
Diamond, A.M., see Halpern, H.J. (1093) 121
Dianzani, M.U., see Albano, E. (1091) 310
Diasio, R.B., see Zhang, R. (1096) 179
Dias Selassie, C., see Compadre, C.M. (1079) 43
Díaz, C., Gutiérrez, J.M., Lomonte, B. and Gené, J.A.
The effect of myotoxins isolated from *Bothrops* snake venoms on multilamellar liposomes: relationship to phospholipase A_2, anticoagulant and myotoxic activities (1070) 455
Diaz, D., see Mus-Veteau, I. (1060) 159
Diaz, J.J., see Jain, S.K. (1086) 225
Dibrov, P.A.
The role of sodium ion transport in *Escherichia coli* energetics (1056) 209
Diccianni, M.B., McLean, L.R., Stuart, W.D., Mistry, M.J., Gil, C.M. and Harmony, J.A.K.
Porcine pancreatic phospholipase A_2 isoforms: differential regulation by heparin (1082) 85
Dicker, E., McHugh, T. and Cederbaum, A.I.
Increased catalytic activity of cytochrome *P*-450IIE1 in pericentral hepatocytes compared to periportal hepatocytes isolated from pyrazole-treated rats (1073) 316
Dickinson, K., Keer, V., Hitchcock, C.A. and Adams, D.J.
Microsomal chitinase activity from *Candida albicans* (1073) 177
Diekmann, H., see Siegmund, K.-D. (1076) 123
Dierick, W., see Dams, E. (1090) 139
Di Giulio, A., see Dini, L. (1062) 108
Di Ilio, C., Aceto, A., Piccolomini, R., Allocati, N., Faraone, A., Bucciarelli, T., Barra, D. and Federici, G.
Purification and characterization of a novel glutathione transferase from *Serratia marcescens* (1077) 141
Dijkema, C., see Houwen, F.P. (1056) 126
Dijkstra, G., see Van der Grond, J. (1074) 189
Dilengite, M.A., see Tripodi, A. (1083) 298
Dilger, J.P., Brett, R.S., Poppers, D.M. and Liu, Y.
The temperature dependence of some kinetic and conductance properties of acetylcholine receptor channels (1063) 253
Dilley, R.A., see Allnutt, F.C.T. (1059) 28
Dilley, R.A., see Renganathan, M. (1059) 16
Di Mascio, P., see Devasagayam, T.P.A. (1088) 409
Dini, L., Di Giulio, A., Pavan, A., Ravagnan, G. and Mossa, G.
Size and stability of dipalmitoylphosphatidylcholine/cholesterol unilamellar vesicles are affected by interaction with proteins (1062) 108
Diniz, C.R., see Sánchez, E.F. (1074) 347
Dinno, M.A., see Carrasquer, G. (1069) 181
Di Nocera, P.P., see Tino, A. (1087) 262
Dinoi, P., see Paradies, G. (1070) 180
Di Prisco, G., see Caruso, C. (1078) 273
Disalvo, E.A., see Bakás, L.S. (1065) 114
Disalvo, E.A., see Biondi, A.C. (1069) 5
Disalvo, E.A., see Senisterra, G.A. (1064) 148
D'Ischia, M., Napolitano, A. and Prota, G.
Peroxidase as an alternative to tyrosinase in the oxidative polymerization of 5,6-dihydroxyindoles to melanin(s) (1073) 423
D'Ischia, M., see Napolitano, A. (1073) 416
D'Ischia, M., see Palumbo, A. (1073) 85
Dive, G., see Lamotte-Brasseur, J. (1085) 91
Divecha, N., Lander, D.J., Scott, T.W. and Irvine, R.F.
Molecular species analysis of 1,2-diacylglycerols and phosphatidic acid formed during bombesin stimulation of Swiss 3T3 cells (1093) 184
Dixon, G.H., see Garber, A.T. (1087) 256

Dobrowolska, G., Muszyńska, G. and Shugar, D.
Benzimidazole nucleoside analogues as inhibitors of plant (maize seedling) casein kinases (1080) 221
Dobson, H., see Anderson, J.C. (1075) 187
Docherty, A.J.P., see Ward, R.V. (1079) 242
Dockray, G.J., see Donella-Deana, A. (1095) 75
Dohi, Y., see Yonemasu, K. (1096) 47
Doi, M., see Mäntele, W. (1057) 367
Doi, M., see Ueda, H. (1075) 181
Doi, M., see Ueda, H. (1080) 126
Dojo, S., see Hayashi, K. (1082) 152
Dolan, J.W. and Fields, S.
Cell-type-specific transcription in yeast (1088) 155
Doliba, N., see Ikai, I. (1074) 289
Dolphin, A.C.
Regulation of calcium channel activity by GTP binding proteins and second messengers (1091) 68
Donath, E., see Engel, J. (1064) 155
Donda, A., Vassart, G. and Christophe, D.
Isolation and characterization of the canine thyroglobulin gene promoter region (1090) 235
Donella-Deana, A., Meyer, H.E. and Pinna, L.A.
The use of phosphopeptides to distinguish between protein phosphatase and acid/alkaline phosphatase activities: opposite specificity toward phosphoseryl/phosphothreonyl substrates (1094) 130
Donella-Deana, A., Varro, A., Dockray, G.J. and Pinna, L.A.
Substitution of phosphotyrosine for sulphotyrosine in biologically active peptides. Enzymatic phosphorylation of a progastrin peptide confers immunoreactivity reminiscent of the sulphated derivative (1095) 75
Donella-Deana, A., see Brunati, A.M. (1091) 123
Donella-Deana, A., see Ruzzene, M. (1094) 121
Doni, M.G., Deana, R., Padoin, E., Ruzzene, M. and Alexandre, A.
Platelet activation by diacylglycerol or ionomycin is inhibited by nitroprusside (1094) 323
Doni, M.G., see Zoccarato, F. (1092) 72
Doolabh, K., see Sastre, J. (1065) 213
Doolabh, K., see Sweiry, J.H. (1070) 135
Dorr, R., see Capurro, C. (1065) 1
Doucet, A., see El Mernissi, G. (1064) 205
Douglas, J.G., see Chang, C.-H. (1093) 42
Dowd, T.L. and Gupta, R.K.
^{19}F-NMR study of the effect of lead on intracellular free calcium in human platelets (1092) 341
Downing, D.T., see Abraham, W. (1068) 189
Doyle, D., see Sanford, J.P. (1087) 259
Doyle, W.A., see Wootton, J.C. (1057) 157
Drake, A.F., see Alder, G.M. (1061) 111
Drews, G., see Mäntele, W. (1057) 367
Driancourt, C., see Yannoukakos, D. (1066) 70
Driessen, A.J.M., see In 't Veld, G. (1065) 203
Droogmans, G., see Albitz, R. (1068) 254
Drummond, G.S., see Smith, T.J. (1073) 221
Drummond, G.S., see Smith, T.J. (1075) 119
Dryden, D. and Weir, M.P.
Evidence for an acid-induced molten-globule state in interleukin-2; a fluorescence and circular dichroism study (1078) 94
Dryden, D.T.F., see Varley, P.G. (1077) 19
Dubertret, G., see Trémolières, A. (1059) 286
Dubertret, L., see Morlière, P. (1084) 261
Dubois, G.R., see Van der Donk, E.M.M. (1074) 443
DuBow, M.S., see Autexier, C. (1088) 147
Dubrovskaya, S.A., see Mikhailenko, I.A. (1085) 299
Ducastaing, A., see Cottin, P. (1079) 139
Duclohier, H., see Molle, G. (1064) 365
Ducrocq, C., see Servent, D. (1074) 320
Ducruet, J.-M., see Kirilovsky, D. (1060) 37
Dudeja, P.K., see Wali, R.K. (1092) 119
Duée, P.-H., see Blachier, F. (1092) 304
Duffus, W.P.H., see Meyer, A.L. (1090) 267
Dufour, E. and Haertlé, T.
Binding of retinoids and β-carotene to β-lactoglobulin. Influence of protein modifications (1079) 316
Dufour, E., see Chobert, J.-M. (1077) 31
Dugelay, S. and Baverel, G.
Concomitant synthesis and degradation of glutamine in isolated rabbit kidney tubules (1075) 191
Duggleby, R.G. and Clarke, R.B.
Experimental designs for estimating the parameters of the Michaelis-Menten equation from progress curves of enzyme-catalyzed reactions (1080) 231
Duggleby, R.G.
Determination of the maximum velocity and Michaelis constant of enzymes by a fixed-point method which avoids the necessity to measure initial rates (1078) 124
Duhm, J., see Engelmann, B. (1091) 261
Duman, J.G., see Wu, D.W. (1076) 416
Dunbar, J.B., see Dunham, W.R. (1079) 253
Duncan, T.M., see Sandermann, Jr., H. (1069) 235
Dunham, W.R., Hagen, W.R., Fee, J.A., Sands, R.H., Dunbar, J.B. and Humblet, C.
An investigation of *Chromatium vinosum* high-potential iron-sulfur protein by EPR and Mossbauer spectroscopy; evidence for a freezing-induced dimerization in NaCl solutions (1079) 253
Dunlap, J.A., see Yorek, M.A. (1061) 1
Dunlap, R.B., see Zhang, H. (1077) 35
Dunn, J.F., Frostick, S., Brown, G. and Radda, G.K.
Energy status of cells lacking dystrophin: an in vivo/in vitro study of *mdx* mouse skeletal muscle (1096) 115
Dunne, M.J. and Petersen, O.H.
Potassium selective ion channels in insulin-secreting cells: physiology, pharmacology and their role in stimulus-secretion coupling (1071) 67
Dunning, A.M., Houlston, R., Frostegård, J., Revill, J., Nilsson, J., Hamsten, A., Talmud, P. and Humphries, S.
Genetic evidence that the putative receptor binding domain of apolipoprotein B (residues 3130 to 3630) is not the only region of the protein involved in interaction with the low density lipoprotein receptor (1096) 231
Dupont, Y., see Carrier, L. (1064) 175
Durand, G., see Alessandri, J.-M. (1086) 340
Durand, G., see Zérouga, M. (1086) 295
Durani, S., see Baburaj, K. (1078) 258
Durrington, P.N., see Arrol, S. (1086) 72
Dutton, P.L., see Alegria, G. (1057) 239
Dutton, P.L., see Alegria, G. (1057) 258
Düzgüneş, N., see Pedroso de Lima, M.C. (1070) 446
Dvoryantsev, S.N., see Timonin, I.M. (1066) 43
Dwek, R.A., see Williams, P.J. (1075) 146
Dykes, D.C., see Pincus, M.R. (1097) 133

E

Earles, S.M., Bronstein, J.C., Winner, D.L. and Bull, A.W.
Metabolism of oxidized linoleic acid: characterization of 13-hydroxyoctadecadienoic acid dehydrogenase activity from rat colonic tissue (1081) 174
East, J.M., see Burgess, A.J. (1064) 139

East, J.M., see Grimes, E.A. (1064) 335
East, J.M., see Stefanova, H.I. (1064) 321
East, J.M., see Stefanova, H.I. (1064) 329
East, J.M., see Tunwell, R.E.A. (1073) 585
Eaton, D.C., see Marunaka, Y. (1070) 152
Eberle, K., see Srinivasan, S.R. (1081) 188
Ebert, D.L., see Warren, R.J. (1086) 354
Edel, C.M., see Berden, J.A. (1057) 151
Edelman, I.S., see Cortas, N. (1070) 223
Edmunds, T., Nagainis, P.A., Sathe, S.K., Thompson, V.F. and Goll, D.E.
Comparison of the autolyzed and unautolyzed forms of μ- and m-calpain from bovine skeletal muscle (1077) 197
Edmundson, H.M.L., see Jones, G.L. (1096) 33
Edmundson, H.M.L., see Jones, G.L. (1097) 71
Edwards, E.-W., see Murphy, D.J. (1088) 86
Edwards, R.H.T., see McConchie, S.M. (1096) 26
Edwards, R.H.T., see Phoenix, J. (1097) 212
Efthymiadis, A. and Schwarz, W.
Conditions for a backward-running Na^+/K^+ pump in *Xenopus* oocytes (1068) 73
Egberts, J., see Gorree, G.C.M. (1086) 209
Eggermont, J.A., Wuytack, F. and Casteels, R.
Characterization of the 3′ end of the pig sarcoplasmic/endoplasmic-reticulum Ca^{2+} pump gene 2 (1088) 448
Eggertsen, G., see Björkhem, I. (1085) 329
Eggleton, P., Penhallow, J. and Crawford, N.
Priming action of inositol hexakisphosphate ($InsP_6$) on the stimulated respiratory burst in human neutrophils (1094) 309
Ehbrecht, H.-J., see Pieper, U. (1087) 147
Ehnholm, C., Bozas, S.E., Tenkanen, H., Kirszbaum, L., Metso, J., Murphy, B. and Walker, I.D.
The apolipoprotein A-I binding protein of placenta and the SP-40,40 protein of human blood are different proteins which both bind to apolipoprotein A-I (1086) 255
Ehrenfeld, J., see Lacoste, I. (1063) 103
Ehrenheim, A.M., Forti, G. and Finazzi, G.
The influence of membrane localized protons on energy utilization at the reaction centres of Photosystem II in isolated thylakoids (1059) 106
Ehret-Sabatier, L., Goeldner, M.P. and Hirth, C.G.
p-Butyroxybenzenediazonium fluoroborate, substrate of acetylcholinesterase and butyrylcholinesterase, discriminates between the two enzymes by a specific affinity labelling (1076) 137
Ehrlich, Y.H., see Naik, U.P. (1092) 256
Eibl, H., see Rustenbeck, I. (1069) 99
Eicher, A.L., see Green, T.R. (1073) 91
Eisenberg, S., see Arnon, R. (1085) 336
Eiteman, M.A. and Gainer, J.L.
Partition of isomeric dipeptides in poly(ethylene glycol)/magnesium sulfate aqueous two-phase systems (1073) 451
Elcombe, C.R., see Bell, D.R. (1090) 211
Eleno, N., see Marín, J.J.G. (1061) 9
Elford, B.C., see Kirk, K. (1061) 305
Elgsaeter, A. and Mikkelsen, A.
Shapes and shape changes *in vitro* in normal red blood cells (1071) 273
Eliakim, R., Mahmood, A. and Alpers, D.H.
Rat intestinal alkaline phosphatase secretion into lumen and serum is coordinately regulated (1091) 1
Elias, E., see Garner, C.M. (1091) 41
Elias, P.M., see Proksch, E. (1083) 71
Eliot, H.M., see Sinha, B.K. (1096) 81
Eliot, H.M., see Sinha, B.K. (1097) 111
Ellfolk, N., Rönnberg, M. and Österlund, K.
Structural and functional features of *Pseudomonas* cytochrome *c* peroxidase (1080) 68
Ellingson, J.S., Janes, N., Taraschi, T.F. and Rubin, E.
The effect of chronic ethanol consumption on the fatty acid composition of phosphatidylinositol in rat liver microsomes as determined by gas chromatography and ^{1}H-NMR (1062) 199
Ellis, J., see Allen, A.K. (1074) 331
Ellison, D.H., Morrisey, J. and Desir, G.V.
Solubilization and partial purification of the thiazide diuretic receptor from rabbit renal cortex (1069) 241
Ellory, J.C., see Erdmann, A. (1061) 85
Ellory, J.C., see Kirk, K. (1061) 305
El Mernissi, G., Barlet-Bas, C., Khadouri, C., Marsy, S., Cheval, L. and Doucet, A.
Characterization and localization of ouabain-insensitive Na-dependent ATPase activities along the rat nephron (1064) 205
Elsegood, C.L., see Mamo, J.C.L. (1081) 241
Elstein, D., see Cortas, N. (1070) 223
El Yandouzi, E.H., see Zlatkine, P. (1065) 225
Emanuel, K., see Banerjee, A. (1076) 330
Emery, D.C., see Goodall, J.C. (1089) 257
Emery, P.W., see Sweiry, J.H. (1070) 135
Emken, E.A., see Beyers, E.C. (1082) 275
Emmerson, B.T., see Free, M.L. (1087) 205
Emmerson, B.T., see Keough, D.T. (1096) 95
Emmison, N., Zammit, V.A. and Agius, L.
Estradiol increases the secretion of hepatic lipase by rat hepatocyte cultures (1083) 147
Emori, Y., see Ishida, S. (1088) 436
Enami, I., Kaneko, M., Kitamura, N., Koike, H., Sonoike, K., Inoue, Y. and Katoh, S.
Total immobilization of the extrinsic 33 kDa protein in spinach Photosystem II membrane preparations. Protein stoichiometry and stabilization of oxygen evolution (1060) 224
Enders, G.C., see De, S.K. (1090) 223
Endo, A., see Hasumi, K. (1083) 289
Endo, A., see Sakai, K. (1077) 192
Endo, H., see Ikejiri, K. (1089) 77
Endo, T., see Ito, R. (1096) 245
Engel, J. and Donath, E.
Osmotic lysis of chromaffin granules treated with the ionophores nigericin and A23187 in isotonic sucrose solution at low pH (1064) 155
Engel, P.C., see Lilley, K.S. (1080) 191
Engel, W., see Klemm, U. (1090) 270
Engelhardt, M.
Cation-dependent solubilization of rat thymocyte chromatin is closely related to decondensation of the nuclei (1087) 173
Engelke, J.A., Hale, J.E., Suttie, J.W. and Price, P.A.
Vitamin K-dependent carboxylase: utilization of decarboxylated bone Gla protein and matrix Gla protein as substrates (1078) 31
Engelmann, B., Schumacher, U. and Duhm, J.
Role of ABH blood group antigens in the stimulation of a DIDS-sensitive Ca^{2+} influx pathway in human erythrocytes by *Ulex europaeus* agglutinin I and a monoclonal anti A_1 antibody (1091) 261
Engleka, K., see Forough, R. (1090) 293
English, L.S., see Goodall, J.C. (1089) 257
Englund, A.-K. and Lundahl, P.
The isoelectric point of the human red cell glucose transporter (1065) 185
Englund, A.-K., see Lundahl, P. (1067) 177
Engström, K.G., Sandström, P.-E. and Sehlin, J.
Volume regulation in mouse pancreatic β-cells is mediated by a furosemide-sensitive mechanism (1091) 145
Enomoto, S., Kashiwayanagi, M. and Kurihara, K.
Liposomes having high sensitivity to odorants (1062) 7
Entler, B., see Hiebl-Dirschmied, C.M. (1090) 123
Entressangles, B., see Wolff, R.L. (1082) 136

Epand, R.M., see Yeagle, P.L. (1065) 49
Erdmann, A., Bernhardt, I., Pittman, S.J. and Ellory, J.C.
Low potassium-type but not high potassium-type sheep red blood cells show passive K^+ transport induced by low ionic strength (1061) 85
Erdmann, A., see Ihrig, I. (1069) 171
Erdmann, V.A., see Barciszewska, M.Z. (1087) 68
Eriksen, E.F., see Pedersen, S.B. (1093) 80
Erikson, A., see Van Weely, S. (1096) 301
Eriksson, H., see Bartonek-Roxå, E. (1088) 245
Eriksson, I., see Marjanovic, S. (1087) 1
Eriksson, L.C., see Morré, D.J. (1057) 140
Erkelens, C., see Kobayashi, M. (1057) 89
Erlanson-Albertsson, C., see Larsson, A. (1083) 283
Ermolova, O.V., see Gusakov, A.V. (1073) 481
Ernst, E.G. and Behnke, W.D.
Construction and expression of synthetic wild-type and mutant genes encoding porcine pancreatic colipase: tryptophan fluorescence studies (1089) 331
Errasfa, M.
Characterization of several phospholipase activities and diacylglycerol/2-monoacylglycerol lipases in rat alveolar macrophages (1085) 201
Escoubas, J.M., see Sixou, S. (1088) 135
Esipova, N.G., see Makarov, A.A. (1078) 283
Esmann, M.
Oligomycin interaction with Na,K-ATPase: oligomycin binding and dissociation are slow processes (1064) 31
Esterbauer, H., see Sattler, W. (1081) 65
Estes, J.E., see Kinosian, H.J. (1077) 151
Estival, A., see Tani, T. (1095) 249
Esyrev, O.V., see Vashchenko, V.I. (1079) 8
Etienne, A.-L., see Kirilovsky, D. (1060) 37
Etienne, J., see Friedman, G. (1082) 27
Etienne, J., see Friedman, G. (1089) 83
Evangelista, M., Chersi, A. and Citro, G.
Specific recognition of human π glutathione transferase by an antipeptide antibody (1074) 214
Evangelopoulos, A.E., see Zevgolis, V.G. (1091) 222
Evans, C.-O., see Cable, E.E. (1080) 245
Evans, H.J., see Kini, R.M. (1095) 117
Evans, M.C.W., see Bowden, S.J. (1060) 89
Evans, M.C.W., see Corrie, A.R. (1057) 384
Evans, R.D. and Williamson, D.H.
Comparison of effects of platelet-activating factor and tumour necrosis factor-α on lipid metabolism in adrenalectomized rats *in vivo* (1086) 191
Everett, G.W., see Osei, A.A. (1078) 339
Ewy, R., see Allnutt, F.C.T. (1059) 28
Ewy, R.G., see Renganathan, M. (1059) 16
Eynard, N., see Houssin, C. (1056) 76
Eynard, N., see Sixou, S. (1088) 135
Eyre, D.R., see Hormel, S.E. (1078) 243
Ezzeddine, B.M., see Ross, R.T. (1056) 317

F

Fabiani, R., see Minelli, A. (1080) 252
Falasca, A.I., see Bolognesi, A. (1087) 293
Falck, J.R., see Westlund, P. (1081) 301
Falk, P., Hoskins, L.C. and Larson, G.
Enhancing effects of bile salts on the degradation of glycosphingolipids by glycosidases from bacteria of the human fecal flora (1084) 139
Fallon, A.M., see Baldridge, G.D. (1089) 396
Famulski, K.S., see Pikuła, S. (1061) 206
Famulski, K.S., see Pilarska, M. (1068) 167
Fan, T.W.-M., Higashi, R.M. and Macdonald, J.M.
Emergence and recovery response of phosphate metabolites and intracellular pH in intact *Mytilus edulis* as examined in situ by in vivo ^{31}P-NMR (1092) 39
Faraggi, M., see Weinstein, M. (1076) 173
Faragó, A., see Farkas, G. (1091) 81
Faraone, A., see Di Ilio, C. (1077) 141
Faraone-Mennella, M.R., see Quesada, P. (1079) 79
Fardeau, M.L., see Bruschi, M. (1076) 79
Farina, A.R., see Gulino, A. (1087) 7
Farina, B., see Quesada, P. (1079) 79
Farkas, G., Buday, L., Antoni, F. and Faragó, A.
The 38 kDa Ca^{2+}/membrane-binding protein of pig granulocytes needs a high Ca^{2+} concentration to be phosphorylated by protein kinase C (1091) 81
Farkašovský, M., Kormanec, J. and Kollárová, M.
Localization and characterization of a temporally regulated promoter from the *Streptomyces aureofaciens* 2201 plasmid pSA 2201 (1088) 119
Farrell, K., see Pink, D.A. (1065) 167
Farrow, N.A., see Kanamori, K. (1096) 270
Faulk, W.P., see Bérczi, A. (1073) 562
Faulkner, K.A., see Hoffman, M. (1095) 78
Favilli, F., see Vincenzini, M.T. (1073) 571
Fawer, M.S., Stierli, J., Cliffe, S. and Fiechter, A.
The characterisation of immobilised lignin peroxidase by flow injection analysis (1076) 15
Fayyad, E.A., see Ross, R.T. (1056) 317
Featherstone, M.S., see Sadoul, R. (1089) 259
Federici, G., see Di Ilio, C. (1077) 141
Fedorko, L., see Orser, B.A. (1094) 19
Fedorov, N.A., see Sud'ina, G.F. (1091) 257
Fee, J.A., see Dunham, W.R. (1079) 253
Fee, J.A., see Peterson, J. (1079) 161
Fehling, E. and Mukherjee, K.D.
Acyl-CoA elongase from a higher plant *(Lunaria annua)*: metabolic intermediates of very-long-chain acyl-CoA products and substrate specificity (1082) 239
Fehmann, H.-C., Göke, R., Göke, B., Bächle, R., Wagner, B. and Arnold, R.
Priming effect of glucagon-like peptide-1 (7-36) amide, glucose-dependent insulinotropic polypeptide and cholecystokinin-8 at the isolated perfused rat pancreas (1091) 356
Feigl, G., see Morrison, A.I. (1089) 121
Feingold, K.R., see Proksch, E. (1083) 71
Feinstein, M.B., see Banga, H.S. (1091) 115
Feix, J.B., Bachowski, G.J. and Girotti, A.W.
Photodynamic action of merocyanine 540 on erythrocyte membranes: structural perturbation of lipid and protein constituents (1075) 28
Feldman, D.A., see Weinhold, P.A. (1086) 57
Féliz, M.R., see Biondi, A.C. (1069) 5
Felle, H., Peters, W. and Palme, K.
The electrical response of maize to auxins (1064) 199
Feller, G., Pauly, J.-P., Smal, A., O'Carra, P. and Gerday, C.
The lactate dehydrogenase of the icefish heart: biochemical adaptations to hypoxia tolerance (1079) 343
Feller, G., Thiry, M. and Gerday, C.
Nucleotide sequence of the lipase gene *lip*3 from the antarctic psychotroph *Moraxella* TA144 (1088) 323
Fellman, J.H., see Green, T.R. (1073) 91

Fenselau, C.C., see Roesijadi, G. (1074) 230
Fenselau, C., see Unger, M.E. (1074) 371
Feo, S., see Fried, M. (1090) 143
Ferber, E., see Zor, U. (1091) 385
Ferenci, T., see Francis, G. (1067) 89
Ferguson, C., see Serrano, R. (1062) 157
Ferguson, S.J.
The functions and synthesis of bacterial *c*-type cytochromes with particular reference to *Paracoccus denitrificans* and *Rhodobacter capsulatus* (1058) 17
Ferguson, S.J., see Bartsch, R.G. (1058) 1
Fernandes, P.L. and Ferreira, H.G.
A mathematical model of rabbit cortical thick ascending limb of the Henle's loop (1064) 111
Fernandez-Checa, J.C., see Takikawa, H. (1084) 247
Fernández, E., see Aguilar, M.R. (1073) 463
Fernández, E., see Galván, A. (1074) 6
Ferramola de Sancovich, A.M., see Kleiman de Pisarev, D.L. (1074) 172
Ferrario, P., see Zecca, L. (1075) 1
Ferraris, A.M., see Canepa, L. (1074) 101
Ferreira, H.G., see Fernandes, P.L. (1064) 111
Ferri, G., see Bellotti, V. (1097) 177
Fesenko, E.E., see Filatova, E.A. (1064) 293
Fesus, L., see Harsfalvi, J. (1073) 268
Feuerstein, N., Mond, J.J., Kinchington, P.R., Hickey, R., Karjalainen Lindsberg, M.-L., Hay, I. and Ruyechan, W.T.
Evidence for DNA binding activity of numatrin (B23), a cell cycle-regulated nuclear matrix protein (1087) 127
Feugeas, J.-P., Néel, D., Goussault, Y. and Derappe, C.
Glycosylation of the human erythrocyte glucose transporter: a minimum structure is required for glucose transport activity (1066) 59
Fewson, C.A., see McNaughton, G.A.L. (1093) 189
Fiechter, A., see Fawer, M.S. (1076) 15
Fields, S., see Dolan, J.W. (1088) 155
Figarella, C., see Barthe, C. (1096) 175
Figdor, C.G., see Cabañas, C. (1092) 165
Filatov, G.N., see Filatova, E.A. (1064) 293
Filatova, E.A., Krapivinsky, G.B., Filatov, G.N., Lazareva, A.V. and Fesenko, E.E.
Antiidiotypic antibodies against anti-cGMP polyclonal antibodies (1064) 293
Finazzi-Agrò, A., see Ragg, E. (1076) 37
Finazzi, G., see Ehrenheim, A.M. (1059) 106
Fincham, D.A., see Young, J.D. (1070) 111
Fincham, D.A., Wolowyk, M.W. and Young, J.D.
Nucleoside uptake by red blood cells from a primitive vertebrate, the pacific hagfish (*Eptatretus stouti*), is mediated by a nitrobenzylthioinosine-insensitive transport system (1069) 123
Findlay, J.B.C., see Andrews, S.C. (1078) 111
Fini, C., Coli, M. and Floridi, A.
Purification of 5′-nucleotidase from human seminal plasma (1075) 20
Finn, K.A., see Wright, L.S. (1079) 174
Fioretti, E., see Barra, D. (1076) 143
Fischer-Colbrie, R., see Bauer, J.W. (1089) 124
Fischer-Colbrie, R., see Schmidle, T. (1060) 251
Fischer, G., see Zor, U. (1091) 385
Fischer, S., see Brunati, A.M. (1091) 123
Fisher, D., see Senior, J. (1062) 77
Fisher, J.H., see McCormack, F.X. (1087) 190
Fishman, P.H., see Pacuszka, T. (1083) 153
Fitzpatrick, R.J., see Anderson, J.C. (1075) 187
Flake, A., see Klemm, U. (1090) 270
Flamigni, A., see Mastrocola, T. (1069) 201
Flanagan, T.D., see Yeagle, P.L. (1065) 49
Flannery, A.V., Macadam, G.C. and Beynon, R.J.
Immunological characterisation of different meprin species in mice (1079) 119
Flasher, D., see Pedroso de Lima, M.C. (1070) 446
Flawia, M., see De Boland, A.R. (1094) 238
Fliess, A., see Pieper, U. (1087) 147
Flink, I.L., see Savu, L. (1097) 19
Flocke, K. and Mannherz, H.G.
Isolation and characterization of 5′-nucleotidase of a human pancreatic tumor cell line (1076) 273
Floor, E., see Schmidle, T. (1060) 251
Florén, C.-H., see Chen, Q. (1083) 173
Floridi, A., see Fini, C. (1075) 20
Florin, I. and Thelestam, M.
ADP-ribosylation in *Clostridium difficile* toxin-treated cells is not related to cytopathogenicity of toxin B (1091) 51
Fodor, I., see Lelkes, G. (1065) 135
Folena, E., see Massari, S. (1067) 131
Folk, J.E., see Abbruzzese, A. (1077) 159
Folk, J.E., see Chung, S.I. (1076) 448
Fong, W.-P., see Ho, Y.-W. (1074) 419
Fonteh, A.N., see Nakamura, T. (1085) 191
Fonteriz, R.I., Sanchez, A., Mollinedo, F., Collado-Escobar, D. and García-Sancho, J.
The role of intracellular acidification in calcium mobilization in human neutrophils (1093) 1
Foo, T.K.F., see Tsao, F.H.C. (1081) 141
Forlani, N., Martegani, E. and Alberghina, L.
Posttranscriptional regulation of the expression of *MET2* gene of *Saccharomyces cerevisiae* (1089) 47
Forough, R., Engleka, K., Thompson, J.A., Jackson, A., Imamura, T. and Maciag, T.
Differential expression in *Escherichia coli* of the α and β forms of heparin-binding acidic fibroblast growth factor-1: potential role of RNA secondary structure (1090) 293
Forsberg, N. and Gustafson, S.
Characterization and purification of the hyaluronan-receptor on liver endothelial cells (1078) 12
Forsberg, N., see Gustafson, S. (1091) 36
Forte, T.M., see Nichols, A.V. (1085) 306
Forti, G., see Ehrenheim, A.M. (1059) 106
Fortnagel, P., see Hilt, W. (1076) 298
Foster, R., Jahroudi, N. and Gedamu, L.
5-Azacytidine increases the total cellular copper content and basal level metallothionein mRNA accumulation of human Hep G2 cells (1088) 373
Foster, S.J., see Nigon, F. (1083) 230
Fowler, B., see Wyss, P.A. (1070) 300
Francesconi, M.A., see Ruzzene, M. (1094) 121
Francesconi, M.A., see Zoccarato, F. (1092) 72
Francis, G.A., Ko, K.W.S., Hara, H. and Yokoyama, S.
Regulation of the uptake of high-density lipoprotein-originated cholesteryl ester by HepG2 cells: role of low-density lipoprotein and plasma lipid transfer protein (1084) 159
Francis, G., Brennan, L. and Ferenci, T.
Affinity-chromatographic purification of sixteen cysteine-substituted maltoporin variants: thiol reactivity and cross-linking in an outer membrane protein of *Escherichia coli* (1067) 89
Francis, S.E., Lyle, I.G. and Jones, M.N.
The effect of surface-bound protein on the permeability of proteoliposomes (1062) 117
Frank, E.G., see Makarov, A.A. (1078) 283
Frank, G., see Li, N. (1059) 215
Frank, P., see Vonwirth, H. (1087) 31
Frank, R., see Morelle, G. (1089) 320
Franken, P.A., see Bekkers, A.C.A.P.A. (1076) 374
Franken, P.A., see Bekkers, A.C.A.P.A. (1089) 345

Franse, M.M., see Bout, A. (1090) 43
Fransen, J.A.M., see Swarts, H.G.P. (1070) 283
Frappier, L., see Pearson, C.E. (1090) 156
Frascotti, G., Coccetti, P., Vanoni, M.A., Alberghina, L. and Martegani, E.
The overexpression of the 3′ terminal region of the *CDC25* gene of *Saccharomyces cerevisiae* causes growth inhibition and alteration of purine nucleotides pools (1089) 206
Fraser, D.M., Van Gorkom, L.C.M. and Watts, A.
Partitioning behaviour of 1-hexanol into lipid membranes as studied by deuterium NMR spectroscopy (1069) 53
Frati, L., see Gulino, A. (1087) 7
Fray, J.C.S.
Regulation of renin secretion by calcium and chemiosmotic forces: (patho)physiological considerations (1097) 243
Frayssinet, C., see Lechner, M.C. (1087) 157
Frederik, P.M., Burger, K.N.J., Stuart, M.C.A. and Verkleij, A.J.
Lipid polymorphism as observed by cryo-electron microscopy (1062) 133
Fredholm, B.B., see Kvanta, A. (1093) 178
Fredman, P., see Gottfries, J. (1081) 253
Free, M.L., Gordon, R.B., Keough, D.T., Beacham, I.R., Emmerson, B.T. and De Jersey, J.
Expression of active human hypoxanthine-guanine phosphoribosyltransferase in *Escherichia coli* and characterisation of the recombinant enzyme (1087) 205
Freeman, B.A., see Panus, P.C. (1091) 303
Freisleben, H.-J., see Blöcher, D. (1065) 160
French, A.S., see Stockbridge, L.L. (1064) 212
French, P.J., see Baxter, M.A. (1091) 158
Frenkel, R.A., see Newgard, C.B. (1090) 333
Frey, M., see Bruschi, M. (1076) 79
Frezard, F. and Garnier-Suillerot, A.
Determination of the osmotic active drug concentration in the cytoplasm of anthracycline-resistant and -sensitive K_{562} cells (1091) 29
Fridman, H., see Livne, A.A. (1068) 161
Fried, M., Feo, S. and Heard, E.
The role of inverted duplication in the generation of gene amplification in mammalian cells (1090) 143
Friede, M.H. and Von Holt, C.
Ricin B-chain promotes the internalisation of liposomal contents into rat hepatoma cells (1069) 273
Friedel, U., Wolbring, G., Wohlfart, P. and Cook, N.J.
The sodium–calcium exchanger of bovine rod photoreceptors: K^+-dependence of the purified and reconstituted protein (1061) 247
Friedman, G., Barak, V., Chajek-Shaul, T., Etienne, J., Treves, A.J., Stein, O. and Stein, Y.
Recombinant human interleukin-1 suppresses lipoprotein lipase activity, but not expression of lipoprotein lipase mRNA in mesenchymal rat heart cell cultures (1089) 83
Friedman, G., Ben-Naim, M., Halimi, O., Etienne, J., Stein, O. and Stein, Y.
The expression of lipoprotein lipase activity and mRNA in mesenchymal rat heart cell cultures is modulated by bFGF (1082) 27
Friedman, H.S., see Gottfries, J. (1081) 253
Friedrich, F., see Lang, F. (1073) 600
Friedrich, F., see Weiss, H. (1069) 165
Friend, D.S., see Huang, S.K. (1069) 117
Friezner Degen, S.J., see Jamison, C.S. (1088) 208
Frimmer, M., see Ziegler, K. (1061) 287
Fritz, S., see Bohnensack, R. (1073) 347
Fromherz, P. and Klingler, J.
Core-coat conductor of lipid bilayer and micromachined silicon (1062) 103
Fromherz, P. and Lambacher, A.
Spectra of voltage-sensitive fluorescence of styryl-dye in neuron membrane (1068) 149
Fromm, H., see Malavolti, M. (1081) 106
Froncisz, W., see Korzeniewski, B. (1060) 210
Fronza, G., Tornaletti, S., Menichini, P., Galiègue-Zouitina, S., Bailleul, B., Loucheux-Lefebvre, M.-H., Abbondandolo, A. and Pedrini, A.M.
Extent of helix perturbation associated with DNA modification by the o-acetyl derivative of the carcinogen 4-hydroxyaminoquinoline-1-oxide (1087) 330
Frostegård, J., see Dunning, A.M. (1096) 231
Frostick, S., see Dunn, J.F. (1096) 115
Fruchart, J.C., see Bard, J.M. (1082) 170
Frühbeis, B., see Adolf, G.R. (1089) 167
Frydman, J., Tomaro, M.L. and Frydman, R.B.
An analysis of the topography of molecular forms 1 and 3 of rat liver biliverdin reductase using polyclonal antibodies (1076) 321
Frydman, R.B., see Frydman, J. (1076) 321
Fuchs, K., see Deslauriers, C. (1091) 165
Fueki, T. and Yamaguchi, K.
Exonuclease III promotes in vitro binding of the replication initiator protein of plasmid pSC101 to the repeated sequences in the *ori* region (1089) 325
Fujie, K., see Sakamoto, W. (1074) 251
Fujii, H. and Kakinuma, K.
Electron transfer reactions in the NADPH oxidase system of neutrophils – involvement of an NADPH-cytochrome *c* reductase in the oxidase system (1095) 201
Fujii, N., see Matsuzaki, K. (1063) 162
Fujii, N., see Matsuzaki, K. (1070) 259
Fujii, Y., Kaizuka, M., Hashida, F., Maruo, J., Sato, E., Yasuda, H., Kurokawa, T. and Ishibashi, S.
Insulin regulates Na^+/glucose cotransporter activity in rat small intestine (1063) 90
Fujimagari, M., see Kundu, M. (1096) 205
Fujimori-Arai, Y., see Koyama, I. (1080) 165
Fujimoto, S., see Tomoda, T. (1088) 359
Fujimura, Y., see Papageorgiou, G.C. (1057) 361
Fujisawa, H., see Katoh, T. (1091) 205
Fujisawa, R. and Kuboki, Y.
Preferential adsorption of dentin and bone acidic proteins on the (100) face of hydroxyapatite crystals (1075) 56
Fujise, H., Cruz, P., Reo, N.V. and Lauf, P.K.
Relationship between total magnesium concentration and free intracellular magnesium in sheep red blood cells (1094) 51
Fujita, H., Yamamoto, M., Yamagami, T., Hayashi, N., Bishop, T.R., De Verneuil, H., Yoshinaga, T., Shibahara, S., Morimoto, R. and Sassa, S.
Sequential activation of genes for heme pathway enzymes during erythroid differentiation of mouse Friend virus-transformed erythroleukemia cells (1090) 311
Fujita, S., see Imaoka, S. (1097) 187
Fujita, T., see Guo, Z.-j. (1056) 89
Fujita, T., see Guo, Z.-j. (1059) 91
Fujita, T., see Matsuzaki, K. (1070) 419
Fujita, T., see Tokutake, N. (1057) 377
Fujita, Y., see Post, A.F. (1060) 67
Fujiwara, C., see Habuchi, O. (1093) 153
Fujiwara, T., see Tamura, T. (1089) 95
Fukami, K., see Gascard, P. (1069) 27
Fukaya, M., see Tamaki, T. (1088) 292
Fukazawa, C., see Shimano, H. (1086) 245
Fukazawa, C., see Shimano, H. (1090) 91
Fukazawa, H., see Funaki, T. (1078) 43

Fuki, I.V., Menschikov, G.B., Menschikowski, M., Adamova, I.Y. and Repin, V.S.
Interaction of apolipoprotein B-containing lipoprotein secreted by Hep G2 cells with receptors for low-density lipoprotein (1086) 237
Fukuda, H. and Iritani, N.
Diurnal variations of lipogenic enzyme mRNA quantities in rat liver (1086) 261
Fukuda, K., see Yamada, J. (1092) 233
Fukuhara, S., see Nagatsuka, T. (1057) 223
Fukui, M., see Matsuzaki, K. (1070) 259
Fukui, S., see Matsui, I. (1077) 416
Fukui, T., see Nomura, T. (1077) 47
Fukui, T., see Takahashi, S. (1093) 207
Fukumori, F., see Nagata, Y. (1076) 187
Fukumori, Y., see Yamanaka, T. (1058) 48
Fukushima, Y., see Ishizuka, N. (1069) 259
Fukushima, Y., see Takada, J. (1065) 153
Fullekrug, J., see Green, S.R. (1090) 277
Fuller, G.M., see Nesbitt, J.E. (1089) 88
Fumagalli, R., see Bernini, F. (1083) 94
Funae, Y., see Imaoka, S. (1074) 209
Funae, Y., see Imaoka, S. (1097) 187
Funaki, C., see Kuzuya, M. (1084) 198
Funaki, C., see Kuzuya, M. (1096) 155
Funaki, T., Takanohashi, Y., Fukazawa, H. and Kuruma, I.
Estimation of kinetic parameters in the inactivation of an enzyme by a suicide substrate (1078) 43
Funakoshi, S., see Matsuzaki, K. (1063) 162
Funk, G.M., see Pape, M.E. (1086) 326
Funk, W.D., see Banfield, D.K. (1089) 262
Furcinitti, P.S., see Tsuji, A. (1078) 85
Furniss, C.S.M., see Hanley, A.B. (1074) 40
Furriel, R.P.M., see Say, J.C. (1074) 256
Furuichi, M., see Ikejiri, K. (1089) 77
Furukawa, T., see Ichikawa, M. (1073) 309

G

Gabius, H.-J.
Detection and functions of mammalian lectins - with emphasis on membrane lectins (1071) 1
Gabizon, A., see Lasic, D.D. (1070) 187
Gadella Jr., T.W.J. and Wirtz, K.W.A.
The low-affinity lipid binding site of the non-specific lipid transfer protein. Implications for its mode of action (1070) 237
Gadella Jr., T.W.J., see Verbist, J. (1063) 1
Gad'on, N., see Mäntele, W. (1057) 367
Gaetani, G.F., see Canepa, L. (1074) 101
Gagliardi, D., Penin, F. and Gautheron, D.C.
Large-scale purification and characterization of the five subunits of F_1-ATPase from pig heart mitochondria (1059) 323
Gagliardino, E.E., see Gagliardino, J.J. (1091) 370
Gagliardino, J.J., Krinks, M.H. and Gagliardino, E.E.
Identification of the calmodulin-regulated protein phosphatase, calcineurin, in rat pancreatic islets (1091) 370
Gagliardino, J.J., see Senisterra, G.A. (1064) 148
Gaillard, D., see Catalioto, R.-M. (1091) 364
Gainer, J.L., see Eiteman, M.A. (1073) 451
Galacteros, F., see Wajcman, H. (1096) 60
Galanter, W.L. and Labotka, R.J.
The binding of nitrate to the human anion exchange protein (AE1) studied with ^{14}N nuclear magnetic resonance (1079) 146
Galera, P., see Redini, F. (1093) 196
Galiègue-Zouitina, S., see Fronza, G. (1087) 330
Gallagher, J., see Irhuma, A. (1074) 1
Galleano, M., see Puntarulo, S. (1074) 277
Galt, S., see Ämmälä, C. (1092) 347
Galton, D.J., see Li, S.-R. (1097) 293
Galván, A., Córdoba, F., Cárdenas, J. and Fernández, E.
Regulation of nitrite uptake and nitrite reductase expression in *Chlamydomonas reinhardtii* (1074) 6
Gambert, P., see Hammami, M. (1094) 153
Ganapathy, V., see Tiruppathi, C. (1069) 14
Gandour, R.D., see Brass, E.P. (1095) 17
Ganguly, N.K., see Khurana, S. (1097) 171
Gao, J.-L., Shopes, R.J. and Wraight, C.A.
Heterogeneity of kinetics and electron transfer equilibria in the bacteriopheophytin and quinone electron acceptors of reaction centers from *Rhodopseudomonas viridis* (1056) 259
Gao, P.-Q., see Chang, D.C. (1092) 153
Garbarino, G., see Heller, R. (1093) 55
Garber, A.T., Winkfein, R.J. and Dixon, G.H.
A novel creatine kinase cDNA whose transcript shows enhanced testicular expression (1087) 256
Garcia, M.C., Mueller, H.W. and Rosenthal, M.D.
C_{20} polyunsaturated fatty acids and phorbol myristate acetate enhance agonist-stimulated synthesis of 1-radyl-2-acetyl-*sn*-glycero-3-phosphocholine in vascular endothelial cells (1083) 37
Garcia, M.C., see Rosenthal, M.D. (1083) 29
García-Agúndez, J.A., Cameselle, J.C., Costas, M.J., Sillero, M.A.G. and Sillero, A.
Particulate diadenosine 5′,5‴-P^1,P^3-triphosphate hydrolases in rat brain: two specific dinucleoside triphosphatases and two phosphodiesterase I-like hydrolases (1073) 402
García-Bustos, J., Heitman, J. and Hall, M.N.
Nuclear protein localization (1071) 83
García-Cánovas, F., see Rodríguez-López, J.N. (1076) 379
García-Moreno, M., Havsteen, B.H., Varón, R. and Rix-Matzen, H.
Evaluation of the kinetic parameters of the activation of trypsinogen by trypsin (1080) 143
García-Romeu, F., see Borgese, F. (1066) 252
García-Romeu, F., see Motais, R. (1075) 169
García-Sáinz, J.A., see Robles-Flores, M. (1094) 77
García-Sancho, J., see Fonteriz, R.I. (1093) 1
Gardiner, A.T., see Deinum, G. (1060) 125
Gardner, H.W.
Recent investigations into the lipoxygenase pathway of plants (1084) 221
Gargouri, Y., Chahinian, H., Moreau, H., Ransac, S. and Verger, R.
Inactivation of pancreatic and gastric lipases by THL and $C_{12:0}$-TNB: a kinetic study with emulsified tributyrin (1085) 322
Garibay, J.L.R., Kozasa, T., Itoh, H., Tsukamoto, T., Matsuoka, M. and Kaziro, Y.
Analysis by mRNA levels of the expression of six G protein α-subunit genes in mammalian cells and tissues (1094) 193
Garlaschi, F.M., see Jennings, R.C. (1060) 245
Garneau, L., see Schwartz, J.-L. (1065) 250
Garner, C.M., Mills, C.O., Elias, E. and Neuberger, J.M.
The effect of bile salts on human vascular endothelial cells (1091) 41
Garnier, J., see Trémolières, A. (1059) 286
Garnier-Suillerot, A., see Frezard, F. (1091) 29
Garotta, G., see Bertocci, B. (1080) 103
Garreau, B., Vallette, G., Adlercreutz, H., Wähälä, K., Mäkelä, T., Benassayag, C. and Nunez, E.A.

Phytoestrogens: new ligands for rat and human α-fetoprotein (1094) 339
Garrido, G., see Serrano, R. (1062) 157
Garsky, V.M., see Bednar, D.L. (1092) 226
Garzó, T., see Kalapos, M.P. (1092) 284
Gasbjerg, P.K. and Brahm, J.
Glucose transport kinetics in human red blood cells (1062) 83
Gascard, P., Tran, D., Sauvage, M., Sulpice, J.-C., Fukami, K., Takenawa, T., Claret, M. and Giraud, F.
Asymmetric distribution of phosphoinositides and phosphatidic acid in the human erythrocyte membrane (1069) 27
Gass, G.V., Chernomordik, L.V. and Margolis, L.B.
Local deformation of human red blood cells in high frequency electric field (1093) 162
Gasset, M., Oñaderra, M., Goormaghtigh, E. and Gavilanes, J.G.
Acid phospholipid vesicles produce conformational changes on the antitumour protein α-sarcin (1080) 51
Gasset, M., Oñaderra, M., Martínez del Pozo, A., Schiavo, G.-P., Laynez, J., Usobiaga, P. and Gavilanes, J.G.
Effect of the antitumour protein α-sarcin on the thermotropic behaviour of acid phospholipid vesicles (1068) 9
Gast, K., see Damaschun, G. (1078) 289
Gati, I., see Lichtstein, D. (1073) 65
Gaussem, P. and Anglés-Cano, E.
The formation of complexes between human plasminogen activator inhibitor-1 (PAI-1) and sodium dodecyl sulfate: possible implication in the functional properties of PAI-1 (1079) 321
Gautheron, D.C., see Gagliardi, D. (1059) 323
Gauthier, F., see Tchoupé, J.R. (1076) 149
Gavilanes, J.G., see Gasset, M. (1068) 9
Gavilanes, J.G., see Gasset, M. (1080) 51
Gawinowicz, M.A., see Almeida, M.R. (1097) 224
Gawrisch, K. and Janz, S.
The uptake of pristane (2,6,10,14-tetramethylpentadecane) into phospholipid bilayers as assessed by NMR, DSC, and tritium labeling methods (1070) 409
Gawron, L.S., see Beerman, T.A. (1090) 52
Gay, J.C. and Murray, J.J.
Differential effects of propranolol on responses to receptor-dependent and receptor-independent stimuli in human neutrophils (1095) 236
Gaynor, P.M., Gill, T., Toutenhoofd, S., Summers, E.F., McGraw, P., Homann, M.J., Henry, S.A. and Carman, G.M.
Regulation of phosphatidylethanolamine methyltransferase and phospholipid methyltransferase by phospholipid precursors in *Saccharomyces cerevisiae* (1090) 326
Gazzah, N., see Vanier, M.T. (1096) 328
Gazzano, H., Wu, H.I. and Waldman, S.A.
Adenine nucleotide regulation of particulate guanylate cyclase from rat lung (1077) 99
Gazzola, G.C., see Bussolati, O. (1070) 305
Ged, C. and Beaune, P.
Isolation of the human cytochrome *P*-450 IIC8 gene: multiple glucocorticoid responsive elements in the 5′ region (1088) 433
Gedamu, L., see Foster, R. (1088) 373
Geerts, W.J., see Te Brömmelstroet, B.W.J. (1079) 293
Geerts, W.J.C., see Van den Hoff, M.J.B. (1090) 249
Geisel, J., Cook, J.A., Coffee, K.A., Wise, W.C. and Halushka, P.V.
Endotoxin-induced arachidonic acid metabolism requires de novo protein synthesis and protein kinase C activation (1085) 15
Geisler, V., see Lemma, E. (1059) 281
Geldwerth, D., De Kermel, A., Zachowski, A., Guerbette, F., Kader, J.C., Henry, J.P. and Devaux, P.F.
Use of spin-labeled and fluorescent lipids to study the activity of the phospholipid transfer protein from maize seedlings (1082) 255
Gené, J.A., see Díaz, C. (1070) 455
Gennis, R.B., see Newton, G. (1089) 8
Gennis, R.B.
Some recent advances relating to prokaryotic cytochrome *c* reductases and cytochrome *c* oxidases (1058) 21
Genot, G., see Awade, A. (1077) 241
Genzel-Boroviczeny, O., see Nichols, A.V. (1085) 306
Geoghegan, K.F., see Lin, M.C. (1078) 329
George, S.K., Najera, L., Sandoval, R. and Ihler, G.M.
β-Galactosidase fused to the hydrophobic domain of cytochrome b_5 spontaneously associates with liposomes (1061) 26
George, S.K., Xu, Y.-H., Benson, L.A., Pratsch, L., Peters, R. and Ihler, G.M.
Cytochrome b_5 and a recombinant protein containing the cytochrome b_5 hydrophobic domain spontaneously associate with the plasma membranes of cells (1066) 131
George, T.P., Cook, H.W., Byers, D.M., Palmer, F.B.S.C. and Spence, M.W.
Inhibition of phosphatidylcholine and phosphatidylethanolamine biosynthesis by cytochalasin B in cultured glioma cells: potential regulation of biosynthesis by Ca^{2+}-dependent mechanisms (1084) 185
Georgescauld, D., see Cottin, P. (1079) 139
Georgescauld, D., see Song, L. (1065) 54
Georghiou, S., see Sekharam, K.M. (1063) 171
Gérard, M., see Hermans, M.P. (1092) 205
Gérardi-Laffin, C., Vittori, C., Sudaka, P. and Poirée, J.C.
Immunological recognition of sodium/D-glucose cotransporter from renal brush border membranes by polyclonal antibodies (1063) 21
Gerday, C., see Feller, G. (1079) 343
Gerday, C., see Feller, G. (1088) 323
Gerding, A., see Wolters, H. (1069) 61
Gerke, V., see Newman, P. (1080) 227
German, J.B., see Berger, A. (1085) 371
Gernat, C., see Damaschun, G. (1078) 289
Gerola, P., see Højrup, P. (1077) 220
Gerritsen, M.E., Schwarz, S.M. and Medow, M.S.
Glucocorticoid-mediated alterations in fluidity of rabbit cardiac muscle microvessel endothelial cell membranes: influences on eicosanoid release (1065) 63
Gerschenson, M., see Houmiel, K.L. (1079) 197
Gershman, L.C., see Kinosian, H.J. (1077) 151
Gersten, D.M., Bijwaard, K.E., Law, L.W. and Hearing, V.J.
Homology of the B50 murine melanoma antigen to the Ro/SS-A antigen of human systemic lupus erythematosus and to calcium-binding proteins (1096) 20
Getman, D.P., see Bovy, P.R. (1079) 23
Ghadiminejad, I. and Saggerson, D.
A proportion of rat liver mitochondrial carnitine palmitoyltransferase can be made activatable by malonyl-CoA (1085) 377
Ghadiminejad, I. and Saggerson, D.
Cholate separates the catalytic and malonyl-CoA-binding components of carnitine palmitoyltransferase from liver outer mitochondrial membranes (1083) 166
Gharib, A., see Sarda, N. (1081) 75
Ghazi, A., see Houssin, C. (1056) 76
Gherardi, E., see Stoker, M. (1072) 81
Ghesquier, D., see Demirkapi, N. (1082) 49
Ghigo, D., see Heller, R. (1093) 55
Ghisla, S., see Inagaki, T. (1077) 285
Ghosh, A., see Rana, A.P.S. (1061) 185
Ghosh, A.K., see Sengupta, S. (1076) 215
Giacomelli, L., see Corradini, S.G. (1086) 125
Giardina, B., see Petruzzelli, R. (1076) 221
Giardina, P., see Sannia, G. (1073) 114
Gibbins, J.R., see Whitelock, J.M. (1073) 107
Gibbons, T., see Murphy, D.J. (1088) 86
Gibori, G., see Steinschneider, A. (1093) 102

Gibson, F., see Munn, A.L. (1060) 82
Gibson, G.E., see Huang, H.-M. (1091) 409
Giga-Hama, Y., see Okada, H. (1078) 377
Gil, C.M., see Diccianni, M.B. (1082) 85
Gilbert, D.J., see Tominaga, S.-i. (1090) 1
Gilbert, M., see Roelofs, T.A. (1060) 237
Gill, T., see Gaynor, P.M. (1090) 326
Gillbro, T., see Bhalerao, R.P. (1060) 59
Gillbro, T., see Miller, M. (1057) 187
Gillies, S.D., see Lo, K.-M. (1088) 217
Gilmore, Jr., R.D. and Hackstadt, T.
DNA polymorphism in the conserved 190 kDa antigen gene repeat region among spotted fever group Rickettsiae (1097) 77
Gilmour, R., Goodhew, C.F. and Pettigrew, G.W.
Cytochrome *c'* of *Paracoccus denitrificans* (1059) 233
Giménez, J.A., see Singh, B.R. (1077) 119
Gingras, D., Ménard, P. and Béliveau, R.
Protein carboxyl methylation in kidney brush-border membranes (1066) 261
Gingras, G., see Mar, T. (1056) 190
Giocondi, M.-C. and Le Grimellec, C.
Water permeation in Madin-Darby canine kidney cells is modulated by membrane fluidity (1064) 315
Giordana, B., see Parenti, P. (1070) 92
Giraud, F., see Gascard, P. (1069) 27
Girotti, A.W., see Feix, J.B. (1075) 28
Gismondi, A., see Gulino, A. (1087) 7
Gjellesvik, D.R.
Fatty acid specificity of bile salt-dependent lipase: enzyme recognition and super-substrate effects (1086) 167
Glahn, R., see Bottje, W. (1073) 168
Glass, J., see Alvarez-Hernandez, X. (1070) 205
Glatz, J.F.C., see Vork, M.M. (1075) 199
Glavas, N.A., see Tong, R.C.W. (1080) 19
Glenn, W.K., see Titchen, D.A. (1089) 61
Glick, J.M., see Bielicki, J.K. (1085) 7
Glinsmann-Gibson, B., see Ciaccio, P.J. (1088) 319
Glitsch, H.G., see Bielen, F.V. (1065) 269
Glotzmann, C., see Hiebl-Dirschmied, C.M. (1090) 123
Gloux, K., see Le Rudulier, D. (1061) 197
Gnoni, G.V., see De Pinto, V. (1061) 279
Gobbo, S., see Ricchelli, F. (1065) 42
Godfroid, J.-J., see Lamotte-Brasseur, J. (1085) 91
Goeldner, M.P., see Ehret-Sabatier, L. (1076) 137
Goffeau, A., see Balzi, E. (1073) 241
Goins, B., see Rudolph, A.S. (1066) 90
Göke, B., see Fehmann, H.-C. (1091) 356
Göke, R., see Fehmann, H.-C. (1091) 356
Golbeck, J.H., see Li, N. (1059) 215
Golbeck, J.H., see Mehari, T. (1056) 139
Goldberg, I., see Hochman, A. (1077) 299
Goldberg, J., see Surholt, B. (1086) 15
Goldblatt, J., see Van Weely, S. (1096) 301
Goldenberg, H., Seelos, C., Chatwani, S., Chegini, S. and Pumm, R.
Uptake and endocytic pathway of transferrin and iron in perfused rat liver (1067) 145
Goldin, E., see Argoff, C.E. (1096) 319
Goldman, D.W., see Triggiani, M. (1084) 41
Goll, D.E., see Edmunds, T. (1077) 197
Gollan, J.L., see Crawford, J.M. (1085) 223
Gómez-Lechón, M.J., see López, M.P. (1094) 200
Gómez-Márquez, J., see Otero, A. (1092) 184
Gómez-Moreno, C., see Pueyo, J.J. (1059) 149
Gomis, R., see Blachier, F. (1091) 151
Gomperts, B.D., see Lillie, T.H.W. (1094) 355
Gomperts, B.D., see Lindau, M. (1071) 429
Gong, E.L., see Nichols, A.V. (1085) 306
Gong, Y., see Lin, M.C. (1078) 329
Gongadze, G., see Sabelnikov, A.G. (1066) 21
Goñi, F.M., see Castresana, J. (1065) 29
Gonias, S.L., see LaMarre, J. (1091) 197
González, B., see Iturralde, M. (1086) 81
Goodall, J.C., Emery, D.C., Bailey, M., English, L.S. and Hall, L.
cDNA cloning of porcine interleukin 2 by polymerase chain reaction (1089) 257
Goodhew, C.F., see Gilmour, R. (1059) 233
Goodier, M.R. and Kay, J.E.
Post-transcriptional regulation of cytoskeletal actin and T lymphocyte receptor β chain mRNA by phorbol ester (1092) 124
Goodlad, G.A.J. and Clark, C.M.
Glucocorticoid-mediated muscle atrophy: alterations in transcriptional activity of skeletal muscle nuclei (1097) 166
Goormaghtigh, E., see Gasset, M. (1080) 51
Gordeliy, V.I., Ivkov, V.G., Ostanevich, Y.M. and Yaguzhinskij, L.S.
Detection of structural defects in phosphatidylcholine membranes by small-angle neutron scattering. The cluster model of a lipid bilayer (1061) 39
Gordeliy, V.I., see Tatulian, S.A. (1070) 143
Gordillo, E., see Ayala, A. (1084) 48
Gordon, J.A., Zoeller, R.A. and Spector, A.A.
Hydroxyeicosatetraenoic acid oxidation in chinese hamster ovary cells: a peroxisomal metabolic pathway (1085) 21
Gordon, J.W., see Coroneos, E. (1073) 593
Gordon, R.B., see Free, M.L. (1087) 205
Gore, M.G., see Spencer, P. (1073) 386
Gorree, G.C.M., Egberts, J., Bakker, G.C.H., Beintema, A. and Top, M.A.
Development of a human lung surfactant, derived from extracted amniotic fluid (1086) 209
Goto, I., see Kobayashi, T. (1081) 159
Goto, M., see Seo, N. (1074) 439
Goto, S., see Kato, K. (1080) 173
Goto, S., see Motojima, K. (1087) 316
Goto, Y.-i., Nonaka, I. and Horai, S.
A new mtDNA mutation associated with mitochondrial myopathy, encephalopathy, lactic acidosis and stroke-like episodes (MELAS) (1097) 238
Gotoda, T., see Shimano, H. (1086) 245
Gottesman, M.M., see Horio, M. (1061) 106
Gottfried, D.S., Steffen, M.A. and Boxer, S.G.
Stark effect spectroscopy of carotenoids in photosynthetic antenna and reaction center complexes (1059) 76
Gottfried, D.S., Stocker, J.W. and Boxer, S.G.
Stark effect spectroscopy of bacteriochlorophyll in light-harvesting complexes from photosynthetic bacteria (1059) 63
Gottfries, J., Percy, A.K., Månsson, J.-E., Fredman, P., Wikstrand, C.J., Friedman, H.S., Bigner, D.D. and Svennerholm, L.
Glycolipids and glycosyltransferases in permanent cell lines established from human medulloblastomas (1081) 253
Gottschalk, M., see Ruttkowski, E. (1087) 104
Götz, F., Schulze-Forster, K., Wagner, H., Kröger, H. and Simon, D.
Transcription inhibition of SV40 by in vitro DNA methylation (1087) 323
Goubran Botros, H., Birkenmeier, G., Otto, A., Kopperschlager, G. and Vijayalakshmi, M.A.
Immobilized metal ion affinity partitioning of cells in aqueous two-phase systems: erythrocytes as a model (1074) 69
Goudemand, M., see Wajcman, H. (1096) 60
Gouet, E., see Botti, J. (1093) 13
Gould-Fogerite, S., see Reston, J.T. (1088) 270
Goundis, D., see Stankowski, S. (1068) 61
Gourlet, P., De Neef, P., Woussen-Colle, M.-C., Vandermeers, A., Vandermeers-Piret, M.-C., Robberecht, P. and Christophe, J.
The activation of adenylate cyclase by pituitary adenylate cyclase

activating polypeptide (PACAP) via helodermin-preferring VIP receptors in human SUP-T1 lymphoblastic membranes (1066) 245
Goussault, Y., see Feugeas, J.-P. (1066) 59
Gove, C.D., see Patel, B. (1074) 178
Govindjee, see Cao, J. (1059) 171
Grabowski, D.T., Carney, J.P. and Kelley, M.R.
An adult male specific gene in *Drosophila* containing the repetitive element *opa* (1090) 115
Gracia-Mora, J., see Mus-Veteau, I. (1060) 159
Grady, J.K., see Martin, D.M. (1076) 252
Graf, T., see Nakano, T. (1090) 273
Graham, A., Zammit, V.A., Christie, W.W. and Brindley, D.N.
Sexual dimorphism in the preferential secretion of unsaturated lysophosphatidylcholine by rat hepatocytes but no secretion by sheep hepatocytes (1081) 151
Graham, L., see Lane, A. (1097) 161
Grainger, D.W., see Davies, D.E. (1084) 29
Grandal, N., see Morrow, M.R. (1070) 209
Grandin, N. and Charbonneau, M.
Changes in intracellular free calcium activity in *Xenopus* eggs following imposed intracellular pH changes using weak acids and weak bases (1091) 242
Granitzer, M. and Steels, P.
Role of Na^+/K^+ exchange and organic acids in base induced hyperpolarization of renal proximal amphibian tubule (1066) 111
Granitzer, M., Nagel, W. and Crabbé, J.
Voltage dependent membrane conductances in cultured renal distal cells (1069) 87
Grant, C.W.M., see Hamilton, K.S. (1062) 220
Gräsbeck, R., see Guéant, J.L. (1073) 614
Grassl, S.M.
Effect of chronic acid loading on rat renal basolateral membrane bicarbonate transport (1061) 226
Grataroli, R., Termine, E., Portugal, H., Pauli, A.-M., Lafont, H. and Nalbone, G.
Subcellular localization of rat gastric phospholipase A_2 (1082) 130
Graupner, W., see Bottje, W. (1073) 168
Graves, D.J., see Takrama, J.F. (1077) 371
Graves, P.E., see Ciaccio, P.J. (1088) 319
Graziani, F., see Tino, A. (1087) 262
Grazia Tozzi, M., D'Arcangelo, U., Del Corso, A. and Ordal, G.W.
Identification and purification of a calcium-binding protein from *Bacillus subtilis* (1080) 160
Grechkin, A.N., Kuramshin, R.A., Safonova, E.Y., Latypov, S.K. and Ilyasov, A.V.
Formation of ketols from linolenic acid 13-hydroperoxide via allene oxide. Evidence for two distinct mechanisms of allene oxide hydrolysis (1086) 317
Grechkin, A.N., Kuramshin, R.A., Safonova, E.Y., Yefremov, Y.J., Latypov, S.K., Ilyasov, A.V. and Tarchevsky, I.A.
Double hydroperoxidation of α-linolenic acid by potato tuber lipoxygenase (1081) 79
Green, B.R., see Webb, M.S. (1060) 133
Green, F., see Lane, A. (1097) 161
Green, F.A., see Baer, A.N. (1085) 45
Green, S.R., Fullekrug, J., Sauer, K. and Tuite, M.F.
Isolation and characterisation of a bovine cDNA encoding eukaryotic initiation factor 2α (1090) 277
Green, T.R., Fellman, J.H., Eicher, A.L. and Pratt, K.L.
Antioxidant role and subcellular location of hypotaurine and taurine in human neutrophils (1073) 91
Green, W.L., see Harris, D.R. (1095) 175
Green, Y., see Syme, P.D. (1093) 234
Greenbaum, N.L. and Mauzerall, D.
Effect of irradiance level on distribution of chlorophylls between PS II and PS I as determined from optical cross-sections (1057) 195
Greenberg, A.H., see Damen, J.E. (1097) 103
Greene, Y., see Cable, E.E. (1080) 245
Greenhough, K.J. and Turner, A.J.
Aminoacylase I is not a glycolipid-anchored ectoenzyme in pig kidney (1076) 364
Greenwood, M. and Tsang, A.
Sequence and expression of annexin VII of *Dictyostelium discoideum* (1088) 429
Gregoire, P., see Nakache, E. (1074) 413
Gregoriadis, G., see Senior, J. (1062) 77
Greijer, E., see Lundahl, P. (1067) 177
Grell, E., see Langosch, D. (1063) 36
Grendell, J., see Rothman, S. (1071) 159
Grendell, J., see Rothman, S. (1074) 85
Griebenow, K., Müller, M.G. and Holzwarth, A.R.
Pigment organization and energy transfer in green bacteria. 3. Picosecond energy transfer kinetics within the B806–866 bacteriochlorophyll *a* antenna complex isolated from *Chloroflexus aurantiacus* (1059) 226
Griebenow, K., see Heibel, G. (1060) 196
Griebenow, S., see Mullineaux, C.W. (1060) 315
Griesser, H., see Reis, M.D. (1072) 177
Griffin, C.S., see Shiels, A. (1097) 81
Griffin, C.S., see Shiels, A. (1097) 318
Griffin, M., see Knight, C.R.L. (1096) 312
Griffith, O.W., see Brass, E.P. (1095) 17
Griffiths, S.L. and Critchley, D.R.
Characterisation of the binding sites for *Escherichia coli* heat-labile toxin type I in intestinal brush borders (1075) 154
Grimes, E.A., Burgess, A.J., East, J.M. and Lee, A.G.
Reconstitution experiments provide no evidence for a role for the 53-kDa glycoprotein in coupling Ca^{2+} transport to ATP hydrolysis by the (Ca^{2+}-Mg^{2+})-ATPase in sarcoplasmic reticulum (1064) 335
Grimes, E.A., see Burgess, A.J. (1064) 139
Grisham, C.M., see Mahaney, J.E. (1064) 55
Grishin, A.V., see Nupenko, E.V. (1091) 213
Grishina, I.B., see Makarov, A.A. (1078) 283
Grisshammer, R., Oeckl, C. and Michel, H.
Expression in *Escherichia coli* of *c*-type cytochrome genes from *Rhodopseudomonas viridis* (1088) 183
Grivell, A.R., Halls, H.J. and Berry, M.N.
Role of mitochondria in hepatic fructose metabolism (1059) 45
Grogan, W.M., see Collins, J.M. (1067) 171
Gromo, G., see Legname, G. (1090) 119
Gromova, E.S., see Kubareva, E.A. (1088) 395
Grondin, G., see Beaudoin, A.R. (1071) 203
Grønn, M., Christensen, E., Hagve, T.-A. and Christophersen, B.O.
Peroxisomal retroconversion of docosahexaenoic acid (22:6(n − 3)) to eicosapentaenoic acid (20:5(n − 3)) studied in isolated rat liver cells (1081) 85
Grønn, M., see Christensen, E. (1081) 167
Grootjans, J.J., see Kraakman, L.S. (1090) 204
Grosescu, R., see Petcu, I. (1065) 99
Gross, C.J. and Savaiano, D.A.
The effect of nutritional state and allopurinol on nucleotide formation in enterocytes from the guinea pig small intestine (1073) 260
Gross, C.T., Salamon, H., Hunt, A.J., Macey, R.I., Orme, F. and Quintanilha, A.T.
Hemoglobin polymerization in sickle cells studied by circular polarized light scattering (1079) 153
Gross, E.L. and Curtiss, A.
The interaction of nitrotyrosine-83 plastocyanin with cytochromes

f and *c*: pH dependence and the effect of an additional negative charge on plastocyanin (1056) 166
Gross, J.L., see Uhl, J. (1097) 283
Gross, R.W., see Han, X. (1063) 129
Gross, R.W., see Han, X. (1069) 37
Gross, W., see Wheeler, J.J. (1086) 310
Grossman, L.I., see Smith, E.O. (1089) 266
Grossman, S., see Lomnitski, L. (1082) 101
Grosvenor, W., see Bellis, S.L. (1061) 89
Grover, A.K., see Spencer, G.G. (1063) 15
Grozdea, J., see Vergnes, H.A. (1076) 152
Grube, C., see Seeger, W. (1081) 45
Gruber, A., Soldati, D., Burri, M. and Schümperli, D.
Isolation of an active gene and of two pseudogenes for mouse U7 small nuclear RNA (1088) 151
Grundy, S.M., see Jialal, I. (1086) 134
Grunfeld, C., see Williams, M.L. (1096) 162
Grupen, C.G., see Oh, S.Y. (1094) 243
Grushko, G., see Maroudas, A. (1073) 285
Gruszecki, W.I. and Sielewiesiuk, J.
Galactolipid multibilayers modified with xanthophylls: orientational and diffractometric studies (1069) 21
Gruszecki, W.I. and Strzałka, K.
Does the xanthophyll cycle take part in the regulation of fluidity of the thylakoid membrane? (1060) 310
Gruszecki, W.I., Veeranjaneyulu, K., Zelent, B. and Leblanc, R.M.
Energy transfer process during senescence: fluorescence and photoacoustic studies of intact pea leaves (1056) 173
Gu, L.-q., see Liu, C. (1057) 373
Gual, A., see Palés, J. (1064) 169
Gualberto, A., see Martín, F. (1091) 110
Guaragna, R.M., Trugo, L. and Borojevic, R.
Neutral lipid synthesis and accumulation during in vitro induction of the lipocyte phenotype in hepatic connective tissue cells (1085) 29
Guberska, J., see Staron, K. (1088) 36
Gudi, V.A., see Singh, S.V. (1074) 363
Guéant, J.L., Schohn, H., Brulé, H., Saunier, M., Gräsbeck, R. and Nicolas, J.P.
Binding assay and physicochemical characteristics of solubilized intrinsic factor receptor in ileal mucosal homogenates using phenyl-Sepharose to separate the saturated receptor from free intrinsic factor (1073) 614
Guerbette, F., see Geldwerth, D. (1082) 255
Guérin, B., see Ouhabi, R. (1060) 293
Guérin, M.G., see Camougrand, N.M. (1057) 124
Guerrieri, F., Zanotti, F., Capozza, G., Colaianni, G., Ronchi, S. and Papa, S.
Structural and functional characterization of subunits of the F_o sector of the mitochondrial F_oF_1-ATP synthase (1059) 348
Guesnet, P., see Alessandri, J.-M. (1086) 340
Guest, J.R., see Andrews, S.C. (1078) 111
Guest, J.R., see Majumdar, R. (1076) 86
Guest, J.R., see Russell, G.C. (1076) 225
Guigliarelli, B., see Mus-Veteau, I. (1060) 159
Guissani, A., see Servent, D. (1074) 320
Guizouarn, H., see Motais, R. (1075) 169
Gulino, A., Vacca, A., Farina, A.R., Screpanti, I., Maroder, M., Gismondi, A., Santoni, A., Frati, L., Luethy, J.D. and Holbrook, N.J.
T-cell restricted and unrestricted expression of transfected human interleukin-2 gene: phorbol ester- and calcium-inducible versus constitutive expression (1087) 7
Guminskij, S.P., see Pasechnikov, V.D. (1097) 45
Gunshin, H., see Sato, R. (1077) 413
Günther, A., see Seeger, W. (1081) 45
Guo, Z.-j., Miyoshi, H., Komyoji, T., Haga, T. and Fujita, T.
Quantitative analysis with physicochemical substituent and molecular parameters of uncoupling activity of substituted diarylamines (1059) 91
Guo, Z.-j., Miyoshi, H., Komyoji, T., Haga, T. and Fujita, T.
Uncoupling activity of a newly developed fungicide, fluazinam [3-chloro-*N*-(3-chloro-2,6-dinitro-4-trifluoromethylphenyl)-5-trifluoromethyl-2-pyridinamine] (1056) 89
Gupta, R.K., see Dowd, T.L. (1092) 341
Gupta, R.S., see Ahmad, S. (1087) 253
Gupta, R.S., see Ahmad, S. (1090) 252
Gupta, R.S., see Venner, T.J. (1087) 336
Gupta, S., see Singhal, S.S. (1079) 285
Gupte, S.S., Chazotte, B., Leesnitzer, M.A. and Hackenbrock, C.R.
Two-dimensional diffusion of F_1F_0-ATP synthase and ADP/ATP translocator. Testing a hypothesis for ATP synthesis in the mitochondrial inner membrane (1069) 131
Gusakov, A.V., Protas, O.V., Chernoglazov, V.M., Sinitsyn, A.P., Kovalysheva, G.V., Shpanchenko, O.V. and Ermolova, O.V.
Transglycosylation activity of cellobiohydrolase I from *Trichoderma longibrachiatum* on synthetic and natural substrates (1073) 481
Gustafson, S. and Forsberg, N.
Hyaluronan-binding proteins on cultured J 774 macrophages (1091) 36
Gustafson, S., see Forsberg, N. (1078) 12
Gustafsson, P., see Bhalerao, R.P. (1060) 59
Gutheil, W.G., see McKenna, C.E. (1075) 109
Gutiérrez, J.M., see Díaz, C. (1070) 455
Gutierrez, L. and Magee, A.I.
Characterization of an acyltransferase acting on $p21^{N\text{-}ras}$ protein in a cell-free system (1078) 147
Gutiérrez-Merino, C., see Macías, P. (1082) 310
Guy-Crotte, O., see Barthe, C. (1096) 175
Guy, K., see Middleton, P.G. (1090) 109
Guyon, D., see Trémolières, A. (1059) 286

H

Haas, H., Redl, B., Leitner, E. and Stöffler, G.
Penicillium chrysogenum extracellular acid phosphatase: purification and biochemical characterization (1074) 392
Haas, R.C., see Payne, R.M. (1089) 352
Haave, N.C. and Innis, S.M.
Perinatal development of hepatic cholesterol synthesis in the rat (1085) 35
Habermann, B., Mohr, C., Just, I. and Aktories, K.
ADP-ribosylation and de-ADP-ribosylation of the *rho* protein by *Clostridium botulinum* exoenzyme C3. Regulation by EDTA, guanine nucleotides and pH (1077) 253
Habuchi, O., Miyachi, T., Kaigawa, S., Nakashima, S., Fujiwara, C. and Hisada, M.
Effects of glutathione depletion on the synthesis of proteoglycan and collagen in cultured chondrocytes (1093) 153
Hachimori, A., see Kaneko, S.-i. (1077) 281
Hackenbrock, C.R., see Gupte, S.S. (1069) 131
Hackett, T.J., see Irhuma, A. (1074) 1
Hackstadt, T., see Gilmore, Jr., R.D. (1097) 77
Hada, T., Ueda, N., Takahashi, Y. and Yamamoto, S.
Catalytic properties of human platelet 12-lipoxygenase as compared with the enzymes of other origins (1083) 89
Haeggström, J.Z., see Wetterholm, A. (1080) 96

Haertlé, T., see Chobert, J.-M. (1077) 31
Haertlé, T., see Dufour, E. (1079) 316
Haest, C.W.M., see Andrick, C. (1064) 235
Haga, T., see Guo, Z.-j. (1056) 89
Haga, T., see Guo, Z.-j. (1059) 91
Hagaman, K.A., see McLean, L.R. (1086) 106
Hagen, W.R., see Dunham, W.R. (1079) 253
Hager, L.P., see Sono, M. (1078) 351
Hägerhäll, C., see Lemma, E. (1059) 281
Hagino, Y., see Nomura, T. (1092) 94
Hagiwara, T., see Nagata, Y. (1076) 187
Hagspiel, K., see Luderer, M.E.H. (1076) 427
Hagve, T.-A., Johansen, Y. and Christophersen, B.
The effect of $n-3$ fatty acids on osmotic fragility of rat erythrocytes (1084) 251
Hagve, T.-A., see Christensen, E. (1081) 167
Hagve, T.-A., see Grønn, M. (1081) 85
Hahn, U., see MacKerell Jr., A.D. (1073) 357
Hajdu, J., see Kan, C.-C. (1066) 95
Halangk, W. and Kunz, W.S.
Use of NAD(P)H and flavoprotein fluorescence signals to characterize the redox state of pyridine nucleotides in epididymal bull spermatozoa (1056) 273
Hale, J.E., see Engelke, J.A. (1078) 31
Halenda, S.P., see Banga, H.S. (1091) 115
Hales, P., see Brindley, D.N. (1085) 119
Halestrap, A.P., see Poole, R.C. (1070) 69
Halimi, O., see Friedman, G. (1082) 27
Hall, K., Perez, G., Sachs, G. and Rabon, E.
Identification of H^+/K^+-ATPase α,β-heterodimers (1077) 173
Hall, L., see Goodall, J.C. (1089) 257
Hall, L., see Jones, R. (1080) 78
Hall, M.N., see Garcia-Bustos, J. (1071) 83
Hall, S.G., see Misra, A.N. (1059) 239
Hallahan, B.J., Ruffle, S.V., Bowden, S.J. and Nugent, J.H.A.
Identification and characterisation of EPR signals involving Q_B semiquinone in plant Photosystem II (1059) 181
Hallahan, B.J., see Bowden, S.J. (1060) 89
Hallenbeck, P.C.
Rhodobacter capsulatus nitrogenase reduction by natural in vivo electron carriers: Reactivity with FdI reduced by chloroplasts (1057) 97
Halliday, J.A., Bell, K. and Shaw, D.C.
The complete amino acid sequence of feline β-lactoglobulin II and a partial revision of the equine β-lactoglobulin II sequence (1077) 25
Halling, P.J., see Kuhl, P. (1078) 326
Halls, D., see McGregor, S.J. (1095) 196
Halls, H.J., see Grivell, A.R. (1059) 45
Halperin, J.A. and Cornelius, F.
A voltage-activated cation transport pathway associated with the sodium pump (1070) 497
Halpern, H.J., Jaffe, D.R., Nguyen, T.-D., Haraf, D.J., Spencer, D.P., Bowman, M.K., Weichselbaum, R.R. and Diamond, A.M.
Measurement of bioreduction rates of cells with distinct responses to ionizing radiation and cisplatin (1093) 121
Halpert, J.R., see Ciaccio, P.J. (1088) 319
Halushka, P.V., see Geisel, J. (1085) 15
Hamanaka, T., see Hiraki, K. (1077) 355
Hamasaki, Y. and Miyazaki, S.
Retinoic acid stimulates peptide leukotriene-syntheses in rat basophilic leukemia-1 (RBL-1) cells (1082) 126
Hamasuna, M., see Anzai, K. (1064) 256
Hamilton, C.L., Ma, L., Renner, M.W. and Scott, R.A.
Ni(II) and Ni(I) forms of pentaalkylamide derivatives of cofactor F_{430} of *Methanobacterium thermoautotrophicum* (1074) 312
Hamilton, K.S., Barber, K.R., Davis, J.H., Neil, K. and Grant, C.W.M.
Phase behaviour of amphotericin B multilamellar vesicles (1062) 220
Hamilton, M.G., see Herskovits, T.T. (1076) 71
Hamilton, R.T., see Davis, T.R. (1095) 145
Hamilton, W.D.O., see Rogers, H.J. (1089) 411
Hamlin, J.L. and Ma, C.
The mammalian dihydrofolate reductase locus (1087) 107
Hamm, M.W., see Richards, E.W. (1076) 23
Hammami, M., Meunier, S., Maume, G., Gambert, P. and Maume, B.F.
Effect of rat plasma high density lipoprotein with or without apolipoprotein E on the cholesterol uptake and on the induction of the corticosteroid biosynthetic pathway in newborn rat adrenocortical cell cultures (1094) 153
Hammarström, A., Soliman, A. and Nordlund, S.
Low- and high-activity forms of glutamine synthetase from *Rhodospirillum rubrum*: sensitivity to feed-back effectors and activation of the low-activity form (1080) 259
Hammerschmidt, S., see Arnhold, J. (1097) 145
Hammerstad-Pedersen, J.M., see Khoshtariya, D.E. (1076) 359
Hamnerius, Y., see Saalman, E. (1064) 124
Hamon, V., see Sanchez-Montero, J.M. (1078) 345
Hamosh, M., see Iverson, S.J. (1083) 109
Hamsten, A., see Dunning, A.M. (1096) 231
Han, J., Beutler, B. and Huez, G.
Complex regulation of tumor necrosis factor mRNA turnover in lipopolysaccharide-activated macrophages (1090) 22
Han, X. and Gross, R.W.
Proton nuclear magnetic resonance studies on the molecular dynamics of plasmenylcholine/cholesterol and phosphatidylcholine/cholesterol bilayers (1063) 129
Han, X. and Gross, R.W.
Alterations in membrane dynamics elicited by amphiphilic compounds are augmented in plasmenylcholine bilayers (1069) 37
Hanada, K., Horii, M. and Akamatsu, Y.
Functional reconstitution of sphingomyelin synthase in Chinese hamster ovary cell membranes (1086) 151
Hanasaki, K., see Kishino, J. (1092) 169
Hanauske-Abel, H.M., see Abbruzzese, A. (1077) 159
Hancock, L.W., see Johnson, K.F. (1073) 120
Handa, H., see Sakamoto, W. (1074) 251
Hanley, A.B., Furniss, C.S.M., Kwiatkowska, C.A. and Mackie, A.R.
The manipulation of DNA with restriction enzymes in low water systems (1074) 40
Hannappel, E., see Schöbitz, B. (1095) 230
Hanozet, G.M., see Parenti, P. (1070) 92
Hansch, C., see Compadre, C.M. (1079) 43
Hansen, C.L., see King, S.C. (1062) 177
Hansen, C., see Allen, T.M. (1066) 29
Hansen, C., see Allen, T.M. (1068) 133
Hansen, H.F., see Højrup, P. (1077) 220
Hansen, T.N., DeVries, A.L. and Baust, J.G.
Calorimetric analysis of antifreeze glycoproteins of the polar fish, *Dissostichus mawsoni* (1079) 169
Hansen, U.-P., see Dau, H. (1057) 337
Hansson, Ö., see Hoganson, C.W. (1057) 399
Hanssum, H., see Vetter, I.R. (1067) 9
Hanzlik, R.P., Jacober, S.P. and Zygmunt, J.
Reversible binding of peptide aldehydes to papain. Structure–activity relationships (1073) 33
Haque, S., see Smith, T.J. (1073) 221
Hara, A., Yamamoto, H., Deyashiki, Y., Nakayama, T., Oritani, H. and Sawada, H.
Aldehyde dismutation catalyzed by pulmonary carbonyl reduc-

tase: kinetic studies of chloral hydrate metabolism to trichloroacetic acid and trichloroethanol (1075) 61
Hara, H., see Francis, G.A. (1084) 159
Harada, H., Kanai, Y., Anzai, M. and Suketa, Y.
cAMP activates Cl^-/HCO_3^- exchange for regulation of intracellular pH in renal epithelial cells (1092) 404
Harada, I., see Takeuchi, H. (1078) 307
Harada, K., see Shimano, H. (1086) 245
Harada, M., Ohta, S., Sato, M., Ito, Y., Kobayashi, Y., Sone, N., Ohta, T. and Kagawa, Y.
The $\alpha_1\beta_1$ heterodimer, the unit of ATP synthase (1056) 279
Harada, M., see Matsuzaki, K. (1063) 162
Haraf, D.J., see Halpern, H.J. (1093) 121
Harata, K., see Muraki, M. (1079) 229
Hardardottir, I. and Kinsella, J.E.
Tumor necrosis factor production by murine resident peritoneal macrophages is enhanced by dietary $n-3$ polyunsaturated fatty acids (1095) 187
Hardeman, D. and Van den Bosch, H.
Localization of enzymes involved in glycero-ether bond formation in rat liver (1081) 285
Hardie, D.G., see Cohen, P. (1094) 292
Harding, J., Skare, J. and Skinner, M.
A second transthyretin mutation at position 33 (Leu/Phe) associated with familial amyloidotic polyneuropathy (1097) 183
Hardonk, M.J., see Wolters, H. (1069) 61
Harell, T., see Zor, U. (1091) 385
Harmony, J.A.K., see Diccianni, M.B. (1082) 85
Harriman, S., see Chen, C.-S. (1078) 411
Harrington, J.P. and Hirsch, R.E.
Analysis of the acid and alkaline dissociation of earthworm hemoglobin, *Lumbricus terrestris,* by front-face fluorescence spectroscopy (1076) 351
Harris, D.A., see Das, A.M. (1096) 284
Harris, D.R., Green, W.L. and Craelius, W.
Acute thyroid hormone promotes slow inactivation of sodium current in neonatal cardiac myocytes (1095) 175
Harrison, L.C., see Maher, F. (1089) 27
Harrison, P.M., see Andrews, S.C. (1078) 111
Harrit, N., see Christensen, U. (1076) 91
Harsfalvi, J., Fesus, L., Tarcsa, E., Laczko, J. and Loewy, A.G.
The presence of a covalently cross-linked matrix in human platelets (1073) 268
Härtlein, M., see Leberman, R. (1089) 287
Hartog, A.F., see Berden, J.A. (1057) 151
Hartrodt, B., see Rahfeld, J. (1076) 314
Hartsel, S.C., see Peterson, R.P. (1064) 165
Hartung, K., see Langosch, D. (1063) 36
Harvey, B.J., see Lacoste, I. (1063) 103
Harvey, C.M., see Young, J.D. (1070) 111
Harvey, S.A.K., Trankina, M.L., Olson, M.S. and Clark, J.B.
Fluorocarbon perfusion of the isolated rat brain: measurement of tissue spaces, EEG and oxygen uptake (1073) 486
Harvey, S.R., Randall Loftus, J., Hurley, E.L., Ross, M.E. and Markus, G.
Characterization of a family of high-molecular-weight plasminogen activators secreted by a lung tumor cell line (1078) 360
Hasan, R., Ali, A. and Ali, R.
Antibodies against DNA-psoralen crosslink recognize unique conformation (1073) 509
Haser, R., see Desseaux, V. (1080) 237
Hashida, F., see Fujii, Y. (1063) 90
Hashida, K., see Takahashi, S. (1093) 207
Hashimoto, F. and Hayashi, H.
Identification of intermediates after inhibition of cholesterol synthesis by aminotriazole treatment in vivo (1086) 115
Hashimoto, H., Ogino, R., Saeki, H., Yatsunami, K. and Ichikawa, A.
Prostaglandin E_1 receptor from mouse mastocytoma P-815 cells couples to 60 kDa GTP-binding protein (1095) 140
Hashimoto, K., see Matsumoto, K. (1092) 311
Hashimoto, T., see Reubsaet, F.A.G. (1083) 305
Hashimoto, Y., Nishiyama, M., Ikehata, O., Horinouchi, S. and Beppu, T.
Cloning and characterization of an amidase gene from *Rhodococcus* species N-774 and its expression in *Escherichia coli* (1088) 225
Hashmi, M. and Anders, M.W.
Enzymatic reaction of β-*N*-methylaminoalanine with L-amino acid oxidase (1074) 36
Hasirci, V.N., see Özden, M.Y. (1075) 102
Hasumi, K., Naganuma, S., Sato, Y. and Endo, A.
Unstable amplification of the chromosomal gene for 3-hydroxy-3-methylglutaryl coenzyme A reductase in compactin-resistant CR200 cells (1083) 289
Hasumi, K., see Sakai, K. (1077) 192
Hatano, M., see Nozawa, T. (1060) 189
Hatano, Y., see Nakazato, K. (1064) 103
Hatch, G.M., Tsukitani, Y. and Vance, D.E.
The protein phosphatase inhibitor, okadaic acid, inhibits phosphatidylcholine biosynthesis in isolated rat hepatocytes (1081) 25
Hatchikian, E.C., see Bruschi, M. (1076) 79
Hathaway, L.D., see Moore, M.R. (1096) 170
Hatsushika, M., see Seki, S. (1079) 57
Hatta, I., see Takahashi, H. (1069) 229
Hattori, M., see Makishima, M. (1094) 1
Hattori, T., see Murakami, T. (1079) 279
Haubruck, H. and McCormick, F.
Ras p21: effects and regulation (1072) 215
Hauptmann, R., see Adolf, G.R. (1089) 167
Hauser, H., see Thurnhofer, H. (1064) 275
Hauser, H., see Yin, C.-C. (1070) 33
Hauser, H.-P., see Jentsch, S. (1089) 127
Häussinger, D. and Lang, F.
Cell volume in the regulation of hepatic function: a mechanism for metabolic control (1071) 331
Havekes, L.M., see Mulder, M. (1081) 308
Havens, M., see Napolitano, A. (1073) 416
Haver, E., see Lichtstein, D. (1073) 65
Havsteen, B.H., see García-Moreno, M. (1080) 143
Hawley, M.D., see Czapla, T.H. (1077) 400
Hay, I., see Feuerstein, N. (1087) 127
Hayakawa, K., see Oizumi, J. (1074) 433
Hayasaka, A., see Kikugawa, K. (1096) 108
Hayashi, A., Nishimura, Y. and Matsubara, T.
Occurrence of ceramide digalactoside as the main glycosphingolipid in the marine sponge *Halichondria japonica* (1083) 179
Hayashi, H., see Hashimoto, F. (1086) 115
Hayashi, K., Dojo, S., Hirata, Y., Ohtani, H., Nakashima, K., Nishio, E., Kurushima, H., Saeki, M. and Kajiyama, G.
Metabolic changes in LDL receptors and an appearance of scavenger receptors after phorbol ester-induced differentiation of U937 cells (1082) 152
Hayashi, M., Inomata, M., Saito, Y., Ito, H. and Kawashima, S.
Activation of intracellular calcium-activated neutral proteinase in erythrocytes and its inhibition by exogenously added inhibitors (1094) 249
Hayashi, N., see Fujita, H. (1090) 311
Hayashi, N., see Ueda, H. (1080) 126
Hayashi, S.-i., see Baby, T.G. (1092) 161
Hayashi, T., see Kuzuya, M. (1084) 198

Hayashi, T., see Kuzuya, M. (1096) 155
Hayashi, Y., see Muraki, M. (1079) 229
Hayes, J. and Scovell, W.M.
cis-Diamminedichloroplatinum (II) modified chromatin and nucleosomal core particle (1089) 377
Hayes, J.J. and Scovell, W.M.
cis-Diamminedichloroplatinum (II) modified chromatin and nucleosomal core particle probed with DNase I (1088) 413
Hayes, K.C., see Khosla, P. (1083) 46
Hayes, M.A., see LaMarre, J. (1091) 197
Hazenberg, B.P.C., see Yap, S.H. (1091) 405
Hazleman, B.L., see Wright, J.K. (1094) 207
Heads, R.J. and Carpenter, B.G.
Isolation, characterisation and growth-related changes of an HMG-like protein from microplasmodia of *Physarum polycephalum* (1079) 15
Healey, J.F., see Cable, E.E. (1080) 245
Heard, E., see Fried, M. (1090) 143
Hearing, V.J., see Gersten, D.M. (1096) 20
Hebert, H., see Thelestam, M. (1062) 245
Hébert, J., see Bonfils, C. (1088) 145
Heby, O., see Stjernborg, L. (1090) 188
Hecht, H.-J., see Kalisz, H.M. (1080) 138
Hediger, M.A., Mendlein, J., Lee, H.-S. and Wright, E.M.
Biosynthesis of the cloned intestinal Na^+/glucose cotransporter (1064) 360
Heibel, G., Griebenow, K. and Hildebrandt, P.
Structural studies of cytochrome *c*-554 from *Chloroflexus aurantiacus* by resonance Raman spectroscopic techniques (1060) 196
Heikoop, J.C., Van den Berg, M., Strijland, A., Weijers, P.J., Schutgens, R.B.H., Just, W.W., Wanders, R.J.A. and Tager, J.M.
Peroxisomes of normal morphology but deficient in 3-oxoacyl-CoA thiolase in Rhizomelic Chondrodysplasia Punctata fibroblasts (1097) 62
Heilmeyer, Jr., L.M.G.
Molecular basis of signal integration in phosphorylase kinase (1094) 168
Heimberg, M., see Castellani, L.W. (1086) 197
Heimberg, M., see Wilcox, H.G. (1081) 246
Heimburger, N., see Kiso, U. (1074) 74
Heinemann, S.H., see Stankovic, C.J. (1061) 163
Heinen, S., see Von Hodenberg, E. (1086) 173
Heins, J., see Rahfeld, J. (1076) 314
Heintz, N.
The regulation of histone gene expression during the cell cycle (1088) 327
Heinz, E., see Centelles, J.J. (1065) 239
Heise, H., Bayerl, T., Isenberg, G. and Sackmann, E.
Human platelet P-235, a talin-like actin binding protein, binds selectively to mixed lipid bilayers (1061) 121
Heitman, J., see Garcia-Bustos, J. (1071) 83
Heldman, E., Levine, M., Morita, K. and Pollard, H.B.
Osmotic strength differentiates between two types of calcium transport pathways regulating catecholamine secretion from cultured bovine chromaffin cells (1091) 417
Heldt, H.W., see Krömer, S. (1057) 42
Helgeland, L., see Myrset, A.H. (1070) 229
Heller, R., Bussolino, F., Ghigo, D., Garbarino, G., Schröder, H., Pescarmona, G., Till, U. and Bosia, A.
Protein kinase C and cyclic AMP modulate thrombin-induced platelet-activating factor synthesis in human endothelial cells (1093) 55
Hellingwerf, K.J., see Leguijt, T. (1057) 353
Helmkamp, Jr., G.M., see Borror, C.A. (1068) 52
Helms, L.R. and Swenson, R.P.
Cloning and characterization of the flavodoxin gene from *Desulfovibrio desulfuricans* (1089) 417
Hemmer, S., see Nehls, U. (1088) 325
Hemminga, M.A., see Sanders, J.C. (1066) 102
Hemminga, M.A., see Spruijt, R.B. (1065) 217
Henderson, R.M. and Cuthbert, A.W.
An outward-rectifying potassium channel in primary cultures of sweat glands from cystic fibrosis subjects (1097) 219
Henke, S., see Abbruzzese, A. (1077) 159
Henke, W. and Jung, K.
Ischemia decreases the content of the adenine nucleotide translocator in mitochondria of rat kidney (1056) 71
Henly, D.C. and Berry, M.N.
Relationship between the stimulation of citric acid cycle oxidation and the stimulation of fatty acid esterification and inhibition of ketogenesis by lactate in isolated rat hepatocytes (1092) 277
Henquin, J.-C., see Hermans, M.P. (1092) 205
Henry, J.P., see Geldwerth, D. (1082) 255
Henry, S.A., see Gaynor, P.M. (1090) 326
Henry, Y., see Servent, D. (1074) 320
Henschen, A., see Kiso, U. (1074) 74
Hensgens, C.M.H., see Te Brömmelstroet, B.W. (1073) 77
Henson, P.M., see Bratton, D.L. (1062) 24
Hentze, M.W.
Determinants and regulation of cytoplasmic mRNA stability in eukaryotic cells (1090) 281
Hepburn, P.A. and Tisdale, M.J.
Importance of the O^6 position of guanine residues in the binding of DNA methylase to DNA (1088) 341
Her, E., see Zor, U. (1091) 385
Herbert, J.-M. and Maffrand, J.-P.
Effect of pentosan polysulphate, standard heparin and related compounds on protein kinase C activity (1091) 432
Herbert, J.S., see Spach, P.I. (1056) 40
Heredia, A. and Benavente, J.
A study of membrane potential across isolated fruit cuticles for NaCl and $CaCl_2$ solutions (1062) 239
Heredia, A., see Romarís, M. (1093) 229
Heredia, C.F., see Larrinoa, I.F. (1073) 502
Heritage, R., see Murdock, G.L. (1076) 197
Hermans, M.P., Schmeer, W., Gérard, M. and Henquin, J.-C.
Effects of chloride deficiency on the pancreatic B-cell response to acetylcholine (1092) 205
Hermes-Lima, M., Valle, V.G.R., Vercesi, A.E. and Bechara, E.J.H.
Damage to rat liver mitochondria promoted by δ-aminolevulinic acid-generated reactive oxygen species: connections with acute intermittent porphyria and lead-poisoning (1056) 57
Hermetter, A., see Lohner, K. (1061) 132
Hermetter, A., see Szolderits, G. (1063) 197
Hernández-Arana, A., see Altamirano, M.M. (1076) 266
Herold, G., see Reimann, F.M. (1085) 315
Herold, G., see Rogler, G. (1095) 30
Herskovits, T.T., Cousins, C.J. and Hamilton, M.G.
The stabilizing influence of divalent ions and Na^+ on the di-decameric structure of *Yoldia limatula* hemocyanin (1076) 71
Hessel, E., see Ihrig, I. (1069) 171
Heydeck, D., see Kühn, H. (1081) 129
Heymans, F., see Lamotte-Brasseur, J. (1085) 91
Hibino, T., see Iwasaki, Y. (1059) 141
Hibino, Y., Iwakami, N. and Sugano, N.
A nuclease from rat-liver nuclei with endo- and exonucleolytic activity (1088) 305
Hickey, R., see Feuerstein, N. (1087) 127
Hider, R.C., see Assadullahi, T.P. (1083) 271
Hiebl-Dirschmied, C.M., Adolf, G.R. and Prohaska, R.
Isolation and partial characterization of the human erythrocyte band 7 integral membrane protein (1065) 195
Hiebl-Dirschmied, C.M., Entler, B., Glotzmann, C., Maurer-Fogy, I., Stratowa, C. and Prohaska, R.

Cloning and nucleotide sequence of cDNA encoding human erythrocyte band 7 integral membrane protein (1090) 123
Hierholzer, K., see Bühler, H. (1075) 206
Higashi, R.M., see Fan, T.W.-M. (1092) 39
Higashi, S., see Okuyama, H. (1084) 13
Higuchi, A., Kominami, S. and Takemori, S.
Kinetic control of steroidogenesis by steroid concentration in guinea pig adrenal microsomes (1084) 240
Hildebrandt, P., see Heibel, G. (1060) 196
Hill, H.R., see Bohnsack, J.F. (1079) 222
Hilt, W., Pfleiderer, G. and Fortnagel, P.
Glucose dehydrogenase from *Bacillus subtilis* expressed in *Escherichia coli I*: purification, characterization and comparison with glucose dehydrogenase from *Bacillus megaterium* (1076) 298
Himes, R.H., see Osei, A.A. (1078) 339
Hindemith-Augustsson, A., see Carstam, R. (1097) 152
Hinze, H., see Maier, K. (1079) 238
Hipeau-Jacquotte, R., see Tiveron, M.-C. (1088) 390
Hirabayashi, Y., see Nakao, T. (1086) 305
Hirai, H., Natori, S. and Sekimizu, K.
Inhibitory action of phospholipid-interacting drugs on transcription initiation in a nuclear extract of Ehrlich ascites tumor cells (1088) 191
Hirai, H., Takahashi, N., Natori, S. and Sekimizu, K.
Binding of simian virus 40 large tumor antigen to phospholipid vesicles (1090) 305
Hiraiwa, K., see Abe, S. (1077) 259
Hiraki, K., Hamanaka, T., Seidou, M. and Kito, Y.
Conformation changes of cuttlefish (*Euprymna morsei*) rhodopsin following photoconversion (1077) 355
Hiramatsu, Y., Ambudkar, I.S. and Baum, B.J.
Characterization of high affinity GTPase activity correlated to β-adrenergic receptor stimulation of adenylyl cyclase in rat parotid membranes (1092) 391
Hirano, N., see Kaneko, S.-i. (1077) 281
Hirao, I., Ishida, M., Watanabe, K. and Miura, K.-i.
Unique hairpin structures occurring at the replication origin of phage G4 DNA (1087) 199
Hirasawa, M., see Knaff, D.B. (1056) 93
Hirashima, N., Ishibashi, H. and Kirino, Y.
Comparative electrophysiological study of reconstituted giant vesicle preparations of the rabbit skeletal muscle sarcoplasmic reticulum K^+ channel (1067) 235
Hirata, H., see Ohta, T. (1059) 157
Hirata, M., see Kimura, Y. (1069) 218
Hirata, M., see Yanaga, F. (1094) 139
Hirata, Y., see Hayashi, K. (1082) 152
Hiratsuka, Y., see Nagata, Y. (1076) 187
Hirota, N., see Koyama, I. (1080) 165
Hirsch, M., see Reinach, P.S. (1066) 115
Hirsch, R.E., see Harrington, J.P. (1076) 351
Hirth, C.G., see Ehret-Sabatier, L. (1076) 137
Hisada, M., see Habuchi, O. (1093) 153
Hishinuma, F., see Tokunaga, M. (1080) 135
Hitchcock, C.A., see Dickinson, K. (1073) 177
Ho, H.-C., see Liao, T.-H. (1079) 335
Ho, W.K.K., Liu, S.C., Shaw, P.C., Yeung, H.W., Ng, T.B. and Chan, W.Y.
Cloning of the cDNA of α-momorcharin: a ribosome inactivating protein (1088) 311
Ho, W.K.K., see Ho, Y.-W. (1074) 419
Ho, W.K.K., Wong, M.-W. and Chan, A.P.Y.
Cloning and sequencing of the grass carp (*Ctenopharyngodon idellus*) growth hormone gene (1090) 245
Ho, Y.-W., Fong, W.-P. and Ho, W.K.K.
Activation and inhibition of human alcohol dehydrogenase by monoclonal antibodies (1074) 419
Hobbs, J.D., Wynn, M., Nunez, D.J., Malkin, R., Knaff, D.B. and Ondrias, M.R.
Structural characterization of heme sites in spinach cytochrome b_6f complexes: a resonance Raman study (1059) 37
Hochman, A. and Goldberg, I.
Purification and characterization of a catalase-peroxidase and a typical catalase from the bacterium *Klebsiella Pneumoniae* (1077) 299
Hodârnău, A., see Benga, G. (1061) 309
Hoefler, S., see Tiffany, C.W. (1096) 41
Hoekstra, D., see Pedroso de Lima, M.C. (1070) 446
Hofer, F., see Luderer, M.E.H. (1076) 427
Höfer, M., see Sigler, K. (1071) 375
Hoffman, L.M., Brooks, S.E., Stein, M.R. and Schneck, L.
SV-40 transformation: effect on GM2 ganglioside in cultured cell lines (1084) 94
Hoffman, M., Faulkner, K.A., Iannone, M.A. and Church, F.C.
The effects of heparin cofactor II-derived chemotaxins on neutrophil actin conformation and cyclic AMP levels (1095) 78
Hoffman, S.J., see Clapper, M.L. (1096) 209
Hogaboam, C.M., see Meddings, J.B. (1070) 43
Hoganson, C.W., Casey, P.A. and Hansson, Ö.
Flash photolysis studies of manganese-depleted Photosystem II: evidence for binding of Mn^{2+} and other transition metal ions (1057) 399
Hogg, P.J., Jackson, C.M. and Winzor, D.J.
Effects of thermodynamic nonideality in kinetic studies: evidence of an expanded intermediate complex in the inactivation of thrombin by antithrombin III (1073) 609
Höjevik, P., see Saalman, E. (1064) 124
Højrup, P., Gerola, P., Hansen, H.F., Mikkelsen, J.M., Shahed, A.E., Knudsen, J., Roepstorff, P. and Olson, J.M.
The amino acid sequence of a major protein component in the light harvesting complex of the green photosynthetic bacterium *Chlorobium limicola* f. *thiosulfatophilum* (1077) 220
Hokari, N., see Tamura, N. (1060) 51
Holbrook, J.J., see Barstow, D.A. (1087) 73
Holbrook, N.J., see Gulino, A. (1087) 7
Holbrook, P.G., Pannell, L.K. and Daly, J.W.
Phospholipase D-catalyzed hydrolysis of phosphatidylcholine occurs with P–O bond cleavage (1084) 155
Holdup, D.W., see Poole, R.C. (1070) 69
Hollander, G., see Stein, O. (1081) 238
Hollander, G., see Stein, Y. (1084) 87
Hollenbach, P.W., see Uhing, R.J. (1093) 115
Holloman, T.L., see Schwartz, M. (1062) 113
Holm, I., see Stjernborg, L. (1090) 188
Holmberg, N., see Reinach, P.S. (1068) 1
Holmes, K.R., see Bottje, W. (1073) 168
Holten, D., see Louie, P. (1087) 25
Holthuizen, P., Van der Lee, F.M., Ikejiri, K., Yamamoto, M. and Sussenbach, J.S.
Identification and initial characterization of a fourth leader exon and promoter of the human IGF-II gene (1087) 341
Holub, B.J., see Thomas, L.M. (1081) 92
Holzer, H., see Maier, K. (1079) 238
Holzwarth, A.R., see Beauregard, M. (1060) 271
Holzwarth, A.R., see Griebenow, K. (1059) 226
Holzwarth, A.R., see Roelofs, T.A. (1060) 237
Homann, M.J., see Gaynor, P.M. (1090) 326
Honda, K., see Matsui, I. (1077) 416
Honda, S., Morii, H., Ohashi, S. and Uedaira, H.
Fluctuation and rotation of human growth hormone-releasing factor in the presence and the absence of phospholipid bilayer analyzed by time-resolved fluorescence depolarization (1068) 81
Honda, T., see Kusui, T. (1094) 231
Hong, K., see Huang, S.K. (1069) 117

Honma, Y., see Makishima, M. (1094) 1
Hoogenboom, H.R., Raus, J.C.M. and Volckaert, G.
Targeting of tumor necrosis factor to tumor cells: secretion by myeloma cells of a genetically engineered antibody-tumor necrosis factor hybrid molecule (1096) 345
Hoogenraad, N., see Barton, P. (1090) 265
Hooper, A.B., Logan, M., Arciero, D.M. and McTavish, H.
c-Cytochromes of the ammonia-oxidizing chemolithoautotrophic bacteria (1058) 13
Hopkins, L., see Martins, I.J. (1081) 328
Hopkins, T.L., see Czapla, T.H. (1077) 400
Hoppe, U., see Reinke, M. (1081) 274
Höppener, J.W.M., see Van Mansfeld, A.D.M. (1087) 235
Hopper, K., see Sleight, R.G. (1067) 259
Horai, S., see Goto, Y.-i. (1097) 238
Hori, H., Tsubaki, M., Yu, N.-T. and Yonetani, T.
Light absorption, electron paramagnetic resonance and resonance Raman characteristics of nitridochromium(V)protoporphyrin-IX and its reconstituted hemoproteins (1077) 392
Hori, T., see Itonori, S. (1081) 321
Horii, M., see Hanada, K. (1086) 151
Horinouchi, S., see Hashimoto, Y. (1088) 225
Horinouchi, S., see Tamaki, T. (1088) 292
Horio, M., Lovelace, E., Pastan, I. and Gottesman, M.M.
Agents which reverse multidrug-resistance are inhibitors of [^{3}H]vinblastine transport by isolated vesicles (1061) 106
Horiuchi, S., see Miyazaki, A. (1082) 143
Horiuchi, S., see Rahim, A.T.M.A. (1082) 195
Hormel, S.E. and Eyre, D.R.
Collagen in the ageing human intervertebral disc: an increase in covalently bound fluorophores and chromophores (1078) 243
Horn, R.S., see Walaas, O. (1094) 92
Hornstra, G., see Vossen, R.C.R.M. (1083) 243
Horrobin, D.F., see Biagi, P.L. (1083) 187
Horrobin, D.F., see Huang, Y.-S. (1082) 319
Horton, P., see Noctor, G. (1057) 320
Horton, P., see Ruban, A.V. (1059) 355
Horváth, G., see Balázs, A. (1077) 127
Horváth, I., Török, Z., Vígh, L. and Kates, M.
Lipid hydrogenation induces elevated 18 : 1-CoA desaturase activity in *Candida lipolytica* microsomes (1085) 126
Hoskins, L.C., see Falk, P. (1084) 139
Hosni, R., see Chabannes, B. (1093) 47
Hosokawa, K., see Ikehara, T. (1068) 87
Hosoya, T., see Suzuki, N. (1092) 367
Hostetler, K.Y.
Effect of thyroxine on the activity of mitochondrial cardiolipin synthase in rat liver (1086) 139
Hostetler, K.Y., see Van Wijk, G.M.T. (1084) 307
Hostetler, K.Y., see Van Wijk, G.M.T. (1086) 99
Hou, K.C. and Zaniewski, R.
The effect of hydrophobic interaction on endotoxin adsorption by polymeric affinity matrix (1073) 149
Houde, M., see Tiveron, M.-C. (1088) 390
Houlston, R., see Dunning, A.M. (1096) 231
Houmiel, K.L., Gerschenson, M. and Low, R.L.
Mitochondrial endonuclease activity in the rat varies markedly among tissues in relation to the rate of tissue metabolism (1079) 197
Houslay, M.D., see Livingstone, C. (1096) 127
Houslay, M.D., see Palmer, T.M. (1097) 193
Houslay, M.D., see Strassheim, D. (1096) 121
Houssin, C., Eynard, N., Shechter, E. and Ghazi, A.
Effect of osmotic pressure on membrane energy-linked functions in *Escherichia coli* (1056) 76
Houwen, F.P., Dijkema, C., Stams, A.J.M. and Zehnder, A.J.B.
Propionate metabolism in anaerobic bacteria; determination of carboxylation reactions with ^{13}C-NMR spectroscopy (1056) 126
Hoving, S., see Swarts, H.G.P. (1070) 283
Howard, S.I., see Cohen, S.G. (1076) 112
Howden, M.E.H., see Pearson, J.A. (1077) 147
Howell, K.E., see Von Hodenberg, E. (1086) 173
Howell, S.L., see Persaud, S.J. (1091) 120
Howell, S.L., see Persaud, S.J. (1095) 183
Hozumi, M., see Makishima, M. (1094) 1
Hrboticky, N., see Aepfelbacher, M. (1074) 125
Hreggvidsson, G.O.
Two structurally different cytochromes *c* from *Bacillus azotoformans*: on the evolution of Gram-positive bacteria (1058) 52
Hrelia, S., see Biagi, P.L. (1083) 187
Hromas, R., Collins, S., Raskind, W., Deaven, L. and Kaushansky, K.
Hem-1, a potential membrane protein, with expression restricted to blood cells (1090) 241
Hsieh, S., see Husic, H.D. (1078) 35
Hsu, B.-D. and Lee, J.-Y.
A study on the fluorescence induction curve of the DCMU-poisoned chloroplast (1056) 285
Hsu, R.Y., see Satterlee, J. (1079) 247
Hsu, W.H., see Chen, J.H. (1087) 309
Hu, L.-r., see MacDonald, R.C. (1061) 297
Hua, Q.-X. and Weiss, M.A.
Two-dimensional NMR studies of Des-(B26–B30)-insulin: sequence-specific resonance assignments and effects of solvent composition (1078) 101
Huang, C.-h., see Lin, H.-n. (1067) 17
Huang, H.-M., Toral-Barza, L. and Gibson, G.E.
Interactions between inositol phosphates and cytosolic free calcium following bradykinin stimulation in cultured human skin fibroblasts (1091) 409
Huang, L., see Klibanov, A.L. (1062) 142
Huang, L., see Liu, D. (1066) 159
Huang, L., see Maruyama, K. (1070) 246
Huang, L., see Zhou, X. (1065) 8
Huang, P.C., see Hung, S.-H. (1090) 255
Huang, S.K., Hong, K., Lee, K.-D., Papahadjopoulos, D. and Friend, D.S.
Light microscopic localization of silver-enhanced liposome-entrapped colloidal gold in mouse tissues (1069) 117
Huang, S.K., see Lasic, D.D. (1070) 187
Huang, T.-F., Wang, W.-J., Teng, C.-M. and Ouyang, C.
Mechanism of action of the antiplatelet peptide, arietin, from *Bitis arietans* venom (1074) 144
Huang, T.-F., Wang, W.-J., Teng, C.-M., Liu, C.-S. and Ouyang, C.
Purification and characterization of an antiplatelet peptide, arietin, from *Bitis arietans* venom (1074) 136
Huang, W.-H., see Askari, A. (1069) 127
Huang, Y., see Joshi, S. (1067) 255
Huang, Y.-P. and Bittar, E.E.
Protection by GTP from the effects of aluminum on the sodium efflux in barnacle muscle fibers (1062) 255
Huang, Y.-P., see Bittar, E.E. (1070) 332
Huang, Y.-S., Smith, R.S., Redden, P.R., Cantrill, R.C. and Horrobin, D.F.
Modification of liver fatty acid metabolism in mice by $n-3$ and $n-6$ Δ^6-desaturase substrates and products (1082) 319
Hubbard, W.C., see Nakamura, T. (1085) 191
Huber, J.L., see Huber, S.C. (1091) 393
Huber, S.C. and Huber, J.L.
In vitro phosphorylation and inactivation of spinach leaf sucrose-phosphate synthase by an endogenous protein kinase (1091) 393
Hübner, W., Mantsch, H.H. and Kates, M.
Intramolecular hydrogen bonding in cardiolipin (1066) 166

Hudson, A.T., see Daya-Makin, M. (1093) 87
Hudson, G.S., see Munn, A.L. (1060) 82
Huet, J.-C., see Martinat, N. (1077) 339
Huez, G., see Han, J. (1090) 22
Hug, P. and Sleight, R.G.
Liposomes for the transformation of eukaryotic cells (1097) 1
Hughes, J.L., see Klucis, E. (1074) 294
Hughes, M.A. and Brash, A.R.
Investigation of the mechanism of biosynthesis of 8-hydroxy-eicosatetraenoic acid in mouse skin (1081) 347
Hughes, M.N., see Bonner, F.T. (1056) 133
Hughes, S.D., see Newgard, C.B. (1090) 333
Hughes, V., see Da Cruz e Silva, E.F. (1089) 269
Hugot, J.-P., see Broyart, J.-P. (1087) 61
Hull, W.M., see Tsao, F.H.C. (1081) 141
Hullin, F., Bossant, M.-J. and Salem, Jr., N.
Aminophospholipid molecular species asymmetry in the human erythrocyte plasma membrane (1061) 15
Hülsmann, W.C., Schneijdenberg, C.T.W.M. and Verkleij, A.J.
Accumulation and excretion of long-chain acylcarnitine by rat hearts; studies with aminocarnitine (1097) 263
Humblet, C., see Dunham, W.R. (1079) 253
Humphries, S., see Dunning, A.M. (1096) 231
Humphries, S.E., see Lane, A. (1097) 161
Hundal, H.S., Babij, P., Taylor, P.M., Watt, P.W. and Rennie, M.J.
Effects of corticosteroid on the transport and metabolism of glutamine in rat skeletal muscle (1092) 376
Hung, S.-H., Yu, C.-W., Chou, T.-M., Huang, P.C. and Lin, L.-Y.
Molecular cloning of Chinese hamster metallothionein II gene and its 5′ flanking region (1090) 255
Hunt, A.J., see Gross, C.T. (1079) 153
Hunt, C.E., see Pape, M.E. (1086) 326
Hunt, J.B., see Ubom, G.A. (1077) 91
Hüntemann, S., see Seitz, J. (1078) 139
Hüppe, G., see Morlière, P. (1084) 261
Hurley, E.L., see Harvey, S.R. (1078) 360
Hurt, E., see Camejo, G. (1096) 253
Hurta, R.A.R. and Wright, J.A.
Mammalian drug resistant mutants with multiple gene amplifications:. genes encoding the M1 component of ribonucleotide reductase, the M2 component of ribonucleotide reductase, ornithine decarboxylase, p5-8, the H-subunit of ferritin and the L-subunit of ferritin (1087) 165
Husain-Chishti, A. and Ruff, P.
Malaria and ovalocytosis – molecular mimicry? (1096) 263
Husic, H.D., Hsieh, S. and Berrier, A.L.
Effect of dithiothreitol on the catalytic activity, quaternary structure and sulfonamide-binding properties of an extracellular carbonic anhydrase from *Chlamydomonas reinhardtii* (1078) 35
Hutchinson, W.L., see Patel, B. (1074) 178
Huth, W., Worm-Breitgoff, C., Möller, U. and Wunderlich, I.
Evidence for an in vivo modification of mitochondrial proteins by coenzyme A (1077) 1
Hwang, P.L., see Lin, L. (1082) 177
Hwang, S.-B.
Specific binding of tritium-labeled inositol 1,4,5-trisphosphate to human platelet membranes: ionic and GTP regulation (1064) 351
Hyman, M.R. and Arp, D.J.
Kinetic analysis of the interaction of nitric oxide with the membrane-associated, nickel and iron-sulfur-containing hydrogenase from *Azotobacter vinelandii* (1076) 165

I

Iannone, M.A., see Hoffman, M. (1095) 78
Iantomasi, T., see Vincenzini, M.T. (1073) 571
Ibarra, C., see Martial, S. (1090) 86
Ibdah, J.A., Smith, C., Lund-Katz, S. and Phillips, M.C.
Effects of apolipoprotein structure on the kinetics of apolipoprotein transfer between phospholipid vesicles (1081) 220
Ibi, T., see Ohno, K. (1090) 9
Ichiba, T., see Kaneko, S.-i. (1077) 281
Ichihara, A., see Tamura, T. (1089) 95
Ichikawa, A., see Hashimoto, H. (1095) 140
Ichikawa, A., see Negishi, M. (1066) 77
Ichikawa, A., see Nomura, T. (1077) 47
Ichikawa, A., see Takahashi, S. (1093) 207
Ichikawa, M., Yoshimura, A., Furukawa, T., Sumizawa, T., Nakazima, Y. and Akiyama, S.-i.
Glycosylation of P-glycoprotein in a multidrug-resistant KB cell line, and in the human tissues (1073) 309
Ichinose, I., see Nakano, S. (1094) 263
Ide, T., Morita, T., Kawasaki, T., Taguchi, T. and Kasai, M.
Purification of a K^+-channel protein of sarcoplasmic reticulum by assaying the channel activity in the planar lipid bilayer system (1067) 213
Idziorek, T. and Klatzmann, D.
Functional expression of the CD4 protein after cross-linking to red blood cells with a bifunctional reagent (1062) 39
Ife, R.J., see Pope, A.J. (1067) 51
Igarashi, K., see Seno, M. (1089) 244
Igbavboa, U. and Pfeiffer, D.R.
Transient induction of the mitochondrial permeability transition by uncoupler plus a Ca^{2+}-specific chelator (1059) 339
Igeta, H., Tamura, Y., Nakaya, K., Nakamura, Y. and Kurihara, Y.
Determination of disulfide array and subunit structure of taste-modifying protein, miraculin (1079) 303
Ihler, G.M., see George, S.K. (1061) 26
Ihler, G.M., see George, S.K. (1066) 131
Ihrig, I., Hessel, E., Seidler, G., Erdmann, A. and Bernhardt, I.
Investigation of monovalent cation influxes of diamide-treated human erythrocytes in solutions of different ionic strength (1069) 171
Iida, H., see Anraku, Y. (1093) 169
Iizasa, T., see Carson, D.A. (1091) 22
Iizuka, H., Asano, K., Ito, F., Tamura, T., Takahashi, H. and Tsutsui, M.
Desensitization of the epidermal adenylate cyclase system: agonists and phorbol esters desensitize by independent mechanisms (1093) 95
Iizuka, K., see Kawaguchi, H. (1094) 161
Ikai, I., Okuda, M., Doliba, N. and Chance, B.
Visibility of ATP and ADP in freeze-trapped tissue from perfused rat liver during normoxia and ischemia using ^{31}P-cryo-NMR (1074) 289
Ikawa, Y., see Yanagisawa, H. (1088) 380
Ikeda, M., Satoh, S., Maeshima, M., Mukohata, Y. and Moritani, C.
A vacuolar ATPase and pyrophosphatase in *Acetabularia acetabulum* (1070) 77

Ikeda, S., see Seki, S. (1079) 57
Ikeda, S., see Tada, M. (1090) 29
Ikeda-Saito, M., see Lee, H.C. (1076) 317
Ikeda, T., see Yamada, J. (1092) 233
Ikeda, T., see Yamashoji, S. (1059) 99
Ikegami, I. and Katoh, S.
Antenna chlorophyll *a* has a structural role in stabilizing the functional conformation of P-700-chlorophyll-protein complexes (1059) 275
Ikegami, I., see Kobayashi, M. (1057) 89
Ikehara, T., Takahashi, A., Yamaguchi, H., Hosokawa, K., Masuya, T. and Miyamoto, H.
Regulatory changes in the K^+, Cl^- and water contents of HeLa cells incubated in an isosmotic high K^+-medium (1068) 87
Ikehata, O., see Hashimoto, Y. (1088) 225
Ikejiri, K., Furuichi, M., Ueno, T., Matsuguchi, T., Takahashi, K., Endo, H. and Yamamoto, M.
The presence and active transcription of three independent leader exons in the mouse insulin-like growth factor II gene (1089) 77
Ikejiri, K., see Holthuizen, P. (1087) 341
Ikekawa, N., see Sato, F. (1091) 188
Iles, R.A., see Rafter, J.E.M. (1074) 263
Ilyasov, A.V., see Grechkin, A.N. (1081) 79
Ilyasov, A.V., see Grechkin, A.N. (1086) 317
Imaizumi, N., see Masuda, Y. (1075) 131
Imamura, T., see Forough, R. (1090) 293
Imanaka, T., Lazarow, P.B. and Takano, T.
A novel 57 kDa peroxisomal membrane polypeptide detected by monoclonal antibody (PXM1a/207B) (1062) 264
Imaoka, S. and Funae, Y.
Hepatic and renal cytochrome *P*-450s in spontaneously hypertensive rats (1074) 209
Imaoka, S., Fujita, S. and Funae, Y.
Age-dependent expression of cytochrome *P*-450s in rat liver (1097) 187
Imperial, S., Quiroga, C., Busquets, M. and Cortés, A.
Heterogeneity of chicken liver cytosolic aspartate aminotransferase (1077) 72
In, Y., see Ueda, H. (1080) 126
Inaba, S., see Yae, Y. (1078) 369
Inada, Y., see Maruo, K. (1074) 62
Inagaki, N., see Nakamura, T. (1085) 191
Inagaki, T., Ohishi, N., Tsukagoshi, N., Udaka, S., Ghisla, S. and Yagi, K.
Structurally different rat liver medium-chain acyl CoA dehydrogenases directed by complementary DNAs differing in their 5′-region (1077) 285
Inaguma, Y., Kurobe, N., Shinohara, H. and Kato, K.
Sensitive immunoassay for rat parvalbumin: tissue distribution and developmental changes (1075) 68
Inaguma, Y., see Kato, K. (1074) 201
Inaguma, Y., see Kato, K. (1080) 173
Indiveri, C., Tonazzi, A. and Palmieri, F.
Characterization of the unidirectional transport of carnitine catalyzed by the reconstituted carnitine carrier from rat liver mitochondria (1069) 110
Indiveri, C., Tonazzi, A., Prezioso, G. and Palmieri, F.
Kinetic characterization of the reconstituted carnitine carrier from rat liver mitochondria (1065) 231
Indovina, P.L., see Santini, M.T. (1070) 27
Infante, R., see Chen, Q. (1083) 173
Innis, S.M., see Haave, N.C. (1085) 35
Ino, H., see Ohno, K. (1090) 9
Inokuchi, J.-i., see Shukla, G.S. (1083) 101
Inomata, M., see Hayashi, M. (1094) 249
Inomata, M., see Yang, W.-J. (1075) 83
Inoué, H., see Tamura, N. (1060) 51
Inoue, K., see Kim, D.K. (1083) 80
Inoue, K., see Masuda, M. (1083) 235
Inoue, M., see Ando, Y. (1073) 374
Inoue, M., see Koshi, S. (1075) 231
Inoue, M., see Ueda, H. (1075) 181
Inoue, M., see Ueda, H. (1080) 126
Inoue, N., see Ohira, Y. (1097) 117
Inoue, Y., see Enami, I. (1060) 224
Inoue, Y., see Miyao, M. (1056) 47
In 't Veld, G., Driessen, A.J.M., Op den Kamp, J.A.F. and Konings, W.N.
Hydrophobic membrane thickness and lipid–protein interactions of the leucine transport system of *Lactococcus lactis* (1065) 203
Ipsen, J.H., see Jørgensen, K. (1062) 227
Ipsen, J.H., see Jørgensen, K. (1067) 241
Iradi, A., see Sáez, G.T. (1092) 325
Irhuma, A., Gallagher, J., Hackett, T.J. and McHale, A.P.
Studies on *N*-acetylglucosaminidase activity produced by *Streptomyces hygroscopicus* (1074) 1
Irie, A., see Negishi, M. (1066) 77
Iritani, N., see Fukuda, H. (1086) 261
Irons, L.I., see Lobban, M.D. (1078) 155
Irvine, R.F., see Divecha, N. (1093) 184
Iseki, K., Kobayashi, M. and Miyazaki, K.
Spermine uptake by rat intestinal brush-border membrane vesicles (1068) 105
Isenberg, G., see Heise, H. (1061) 121
Ishibashi, H., see Hirashima, N. (1067) 235
Ishibashi, K., see Nishiura, T. (1077) 346
Ishibashi, S., see Fujii, Y. (1063) 90
Ishibashi, S., see Mokuno, H. (1082) 63
Ishibashi, S., see Yamashita, A. (1091) 46
Ishida, M., see Hirao, I. (1087) 199
Ishida, S., Emori, Y. and Suzuki, K.
Rat calpastatin has diverged primary sequence from other mammalian calpastatins but retains functionally important sequences (1088) 436
Ishida, T., see Ueda, H. (1075) 181
Ishida, T., see Ueda, H. (1080) 126
Ishihara, H., Tamiya-Koizumi, K., Kuriki, H., Yoshida, S. and Kojima, K.
Growth-associated changes in fatty acid compositions of nuclear phospholipids of liver cells (1084) 53
Ishii, T., see Bannai, S. (1092) 175
Ishii, T., see Sato, H. (1069) 46
Ishii, Y., see Kim, K.S. (1085) 343
Ishikawa, H., see Iwasaki, Y. (1059) 141
Ishikawa, I., see Makishima, M. (1094) 1
Ishikawa, K., see Matsui, I. (1077) 416
Ishikawa, M., see Okada, M. (1073) 514
Ishikawa, Y., see Nakano, Y. (1074) 326
Ishimaru, K., see Seno, M. (1089) 244
Ishine, S., see Ohira, Y. (1097) 117
Ishiura, S., see Tanabe, H. (1094) 281
Ishiura, S., see Tsukahara, T. (1079) 273
Ishizaka, T., see Nakamura, T. (1085) 191
Ishizuka, N., Fukushima, Y., Urayama, O. and Akera, T.
Na^+,K^+-ATPase inhibition by an endogenous peptide, SPAI-1, isolated from porcine duodenum (1069) 259
Ismail-Beigi, F., see Kuruvilla, A.K. (1094) 300
Isobe, A., see Sakai, K. (1079) 65
Issinger, O.-G., see Boldyreff, B. (1088) 439
Itasaka, O., see Itonori, S. (1081) 321
Ito, F., see Iizuka, H. (1093) 95
Ito, H., see Hayashi, M. (1094) 249

Ito, R., Matsumoto, H., Uchida, K., Kubo, T., Tsukii, Y., Endo, T. and Kaji, A.
Novel muteins of human tumor necrosis factor α (1096) 245
Ito, T., see Yamazaki, M. (1063) 175
Ito, Y., see Harada, M. (1056) 279
Itoh, H., see Garibay, J.L.R. (1094) 193
Itonori, S., Kamemura, K., Narushima, K., Sonku, N., Itasaka, O., Hori, T. and Sugita, M.
Characterization of a new phosphonocerebroside, *N*-methyl-2-aminoethylphosphonylglucosylceramide, from the antarctic krill, *Euphausia superba* (1081) 321
Iturralde, M., Alava, M.A., González, B., Anel, A. and Piñeiro, A.
Effect of α-fetoprotein and albumin on the uptake of polyunsaturated fatty acids by rat hepatoma cells and fetal rat hepatocytes (1086) 81
Iverson, S.J., Kirk, C.L., Hamosh, M. and Newsome, J.
Milk lipid digestion in the neonatal dog: the combined actions of gastric and bile salt stimulated lipases (1083) 109
Ives, C.L., see Amano, H. (1088) 251
Ivkov, V.G., see Gordeliy, V.I. (1061) 39
Iwakami, N., see Hibino, Y. (1088) 305
Iwanaga, S., see Yae, Y. (1078) 369
Iwasaki, H., Yoshimura, T., Suzuki, S. and Shidara, S.
Spectral properties of *Achromobacter xylosoxidans* cytochromes c' and their NO complexes (1058) 79
Iwasaki, Y., Ishikawa, H., Hibino, T. and Takabe, T.
Characterization of genes that encode subunits of cucumber PS I complex by N-terminal sequencing (1059) 141
Iyo, H., see Ueda, H. (1075) 181
Izumi, S., see Mori, S. (1090) 129
Izumi, S., see Sakurai, H. (1087) 18
Izumida, Y., Seiyama, A. and Maeda, N.
Erythrocyte aggregation: bridging by macromolecules and electrostatic repulsion by sialic acid (1067) 221
Izzo, R., see Cesarone, C.F. (1087) 241

J

Jackson, A., see Forough, R. (1090) 293
Jackson, C.A., see Peterson, J.W. (1092) 79
Jackson, C.M., see Hogg, P.J. (1073) 609
Jackson, M. and Mantsch, H.H.
Beware of proteins in DMSO (1078) 231
Jackson, M.J., see Phoenix, J. (1097) 212
Jackson, P.J., see Murphy, D.J. (1088) 86
Jackson, R.J.
Potassium salts influence the fidelity of mRNA translation initiation in rabbit reticulocyte lysates: unique features of encephalomyocarditis virus RNA translation (1088) 345
Jackson, S., see Bhandari, D.G. (1077) 385
Jacob, J.
Fluorescence response in chlortetracycline-loaded neutrophils measures release of Ca^{2+} from intracellular membrane enclosed storage sites (1091) 317
Jacober, S.P., see Hanzlik, R.P. (1073) 33
Jacobs, A.E.M., Benders, A.A.G.M., Oosterhof, A., Veerkamp, J.H., Van Mier, P., Wevers, R.A. and Joosten, E.M.G.
The calcium homeostasis and the membrane potential of cultured muscle cells from patients with myotonic dystrophy (1096) 14
Jacobsen, C., see Blokkebak-Poulsen, J. (1068) 125
Jacobsohn, G.M., see Jacobsohn, M.K. (1073) 1
Jacobsohn, M.K., Byler, D.M. and Jacobsohn, G.M.
Isolation of estradiol-2,3-quinone and its intermediary role in melanin formation (1073) 1
Jaffe, D.R., see Halpern, H.J. (1093) 121
Jäger, K., Stieger, S. and Brodbeck, U.
Cholinesterase solubilizing factor from *Cytophaga* sp. is a phosphatidylinositol-specific phospholipase C (1074) 45
Jahns, P., Lavergne, J., Rappaport, F. and Junge, W.
Stoichiometry of proton release during photosynthetic water oxidation: a reinterpretation of the responses of Neutral red leads to a non-integer pattern (1057) 313
Jahroudi, N., see Foster, R. (1088) 373
Jain, M.K., see Apitz-Castro, R. (1094) 269
Jain, S.K. and Diaz, J.J.
Plasma lecithin-cholesterol acyltransferase activity and cholesterol and phospholipid levels in premature newborn infants (1086) 225
Jakobsen, K.B., see Parish, C.R. (1073) 56
Jakubke, H.-D., see Schellenberger, V. (1078) 1
Jakubke, H.-D., see Schellenberger, V. (1078) 8
James, C.S., see Cooke, D.T. (1061) 156
James, P.S., see Smith, M.W. (1093) 144
James, R.W., see Borghini, I. (1083) 139
James, V.J., McConnell, J.F. and Capel, M.
The d-spacing of collagen from mitral heart valves changes with ageing, but not with collagen type III content (1078) 19
Jamil, H. and Vance, D.E.
Substrate specificity of CTP:phosphocholine cytidylyltransferase (1086) 335
Jamison, C.S. and Friezner Degen, S.J.
Prenatal and postnatal expression of mRNA coding for rat prothrombin (1088) 208
Jan, C.-Y., Takahama, U. and Kimura, M.
Inhibition of photooxidation of α-tocopherol by quercetin in human blood cell membranes in the presence of hematoporphyrin as a photosensitizer (1086) 7
Jane, S.D., see Stefanova, H.I. (1064) 329
Janes, N., see Ellingson, J.S. (1062) 199
Jankewicz, R., see Perrella, F.W. (1076) 209
Jans, A.W.H., see Von Recklinghausen, I.R. (1091) 179
Jans, D.A., see Munn, A.L. (1060) 82
Jansen, H., see Staels, B. (1085) 131
Jansen, H., see Verhoeven, A.J.M. (1086) 49
Jansen, I.D.C., see Van Weely, S. (1096) 301
Jansen, J.H., see Danpure, C.J. (1096) 134
Jansen, J.J.M., Mulder, W.R., De Caluwé, G.L.J., Vlak, J.M. and De Grip, W.J.
In vitro expression of bovine opsin using recombinant baculovirus: the role of glutamic acid (134) in opsin biosynthesis and glycosylation (1089) 68
Janson, K. and Brändén, R.
A spectrometric study of the Co^{2+}-activated ribulose-1,5-bisphosphate carboxylase reaction during turnover and at different pH (1080) 40
Jansson, C.C., Kukkonen, J. and Åkerman, K.E.O.
Muscarinic receptor-linked elevation of cAMP in SH-SY5Y neuroblastoma cells is mediated by Ca^{2+} and protein kinase C (1095) 255
Jansz, H.S., see Van Mansfeld, A.D.M. (1087) 235
Janvier, B., see Ribeiro, A. (1086) 279
Jany, K.-D., see Ruttkowski, E. (1087) 104
Janz, S., see Gawrisch, K. (1070) 409
Janzen, E.G., see Towner, R.A. (1096) 222
Jarrousse, C., see Tani, T. (1095) 249
Järv, J., see Sepp, A. (1077) 407
Jelveh, Z., see Kalbag, S.S. (1094) 85
Jenkins, G.H., Subrahmanyam, G. and Anderson, R.A.

Purification and reconstitution of phosphatidylinositol 4-kinase from human erythrocytes (1080) 11
Jenkins, N.A., see Tominaga, S.-i. (1090) 1
Jenkins, R.J., Aronson, J.K. and Brearley, C.J.
Increases in Na/K pump numbers in isolated human lymphocytes exposed to lithium in vitro. Reversal by *myo*-inositol and by inhibitors of protein kinase C and the Na/H antiport (1092) 138
Jenkins, R.L., McDaniel, H.G. and Atkins, L.
Changes in AMP deaminase activities in the hearts of diabetic rats (1077) 379
Jennings, P.R., see Danpure, C.J. (1096) 134
Jennings, R.C., Zucchelli, G. and Garlaschi, F.M.
The influence of quenching by open reaction centres on the Photosystem II fluorescence emission spectrum (1060) 245
Jenta, T.R.J., see Rees, G.D. (1073) 493
Jentsch, S., Seufert, W. and Hauser, H.-P.
Genetic analysis of the ubiquitin system (1089) 127
Jerala, R., see Žerovnik, E. (1078) 313
Jessee, C.B., see Bambara, R.A. (1088) 11
Jessen, H. and Sheikh, M.I.
Renal transport of taurine in luminal membrane vesicles from rabbit proximal tubule (1064) 189
Jhiang, S., see Yaneva, M. (1090) 181
Jhun, B.H., Berenski, C.J., Craik, J.D., Paterson, A.R.P., Cass, C.E. and Jung, C.Y.
Glucose and nucleoside transporters of human erythrocytes: effects of detergents on immunoadsorption of a membrane protein to its monoclonal antibody (1061) 149
Jialal, I., Norkus, E.P., Cristol, L. and Grundy, S.M.
β-Carotene inhibits the oxidative modification of low-density lipoprotein (1086) 134
Jiang, B., see Chang, C.-H. (1093) 42
Jigami, Y., see Muraki, M. (1079) 229
Jimi, S., see Zhou, Q. (1085) 1
Johansen, Y., see Hagve, T.-A. (1084) 251
Johnsen, B.R., see Myrset, A.H. (1070) 229
Johnson, A., see Owens, D. (1082) 303
Johnson, C., see Clay, K.L. (1094) 43
Johnson, K.F., Hancock, L.W. and Dawson, G.
Synthesis and processing of lysosomal α-fucosidase in cultured human fibroblasts (1073) 120
Johnson, L.F., see Zhang, H. (1077) 35
Johnson, M.S., see MacEwan, D.J. (1094) 346
Johnson, P., see Trowbridge, I.S. (1095) 46
Johnson, W.J., Mahlberg, F.H., Rothblat, G.H. and Phillips, M.C.
Cholesterol transport between cells and high-density lipoproteins (1085) 273
Johnson, W.J., see Bielicki, J.K. (1085) 7
Johnston, J., see Serra, F. (1097) 289
Johnston, J.M., see Newgard, C.B. (1090) 333
Joiner, C., see Schroeder, F. (1066) 183
Jolicoeur, M., see Lavoie, C. (1070) 274
Joll, C.A., see Martins, I.J. (1081) 328
Jona, I. and Martonosi, A.
The effect of high pressure on the conformation, interactions and activity of the Ca^{2+}-ATPase of sarcoplasmic reticulum (1070) 355
Jona, I., see Buchet, R. (1069) 209
Jona, I., see Molnar, E. (1068) 27
Jonas, A.
Lecithin-cholesterol acyltransferase in the metabolism of high-density lipoproteins (1084) 205
Jonas, A., Bottum, K. and Kézdy, K.E.
Transformations of reconstituted high-density lipoprotein subclasses as a function of temperature or LDL concentration (1085) 71
Jondal, M., see Chow, S.C. (1092) 358
Jondal, M., see Kvanta, A. (1093) 178
Jones, G.L. and Edmundson, H.M.L.
Plasmodium falciparum polypeptides interacting with human red cell membranes show high affinity binding to Band-3 (1097) 71
Jones, G.L., Edmundson, H.M.L., Wesche, D. and Saul, A.
Human erythrocyte Band-3 has an altered N terminus in malaria-resistant Melanesian ovalocytosis (1096) 33
Jones, M.N. and Nicholas, A.R.
The effect of blood serum on the size and stability of phospholipid liposomes (1065) 145
Jones, M.N., see Francis, S.E. (1062) 117
Jones, M.N., see Nicholas, A.R. (1074) 105
Jones, M.R., see Rosenthal, M.D. (1083) 29
Jones, O.T.G., see Cross, A.R. (1057) 281
Jones, P.M., see Persaud, S.J. (1091) 120
Jones, P.M., see Persaud, S.J. (1095) 183
Jones, R. and Hall, L.
A 23 kDa protein from rat sperm plasma membranes shows sequence similarity and phospholipid binding properties to a bovine brain cytosolic protein (1080) 78
Jones, R.M., see Das, D.K. (1073) 394
Joo Lee, H., see Khoury, A.M. (1087) 55
Joosten, E.M.G., see Jacobs, A.E.M. (1096) 14
Jordan, P. and Vilter, H.
Extraction of proteins from material rich in anionic mucilages: Partition and fractionation of vanadate-dependent bromoperoxidases from the brown algae *Laminaria digitata* and *L. saccharina* in aqueous polymer two-phase systems (1073) 98
Jørgensen, K., Ipsen, J.H., Mouritsen, O.G., Bennett, D. and Zuckermann, M.J.
A general model for the interaction of foreign molecules with lipid membranes: drugs and anaesthetics (1062) 227
Jørgensen, K., Ipsen, J.H., Mouritsen, O.G., Bennett, D. and Zuckermann, M.J.
The effects of density fluctuations on the partitioning of foreign molecules into lipid bilayers: Application to anaesthetics and insecticides (1067) 241
Jørgensen, P.E., Nexø, E. and Poulsen, S.S.
The membrane fraction of homogenized rat kidney contains an enzyme that releases epidermal growth factor from the kidney membranes (1074) 284
Jori, G., see Ricchelli, F. (1065) 42
Jorissen, M., Vereecke, J., Carmeliet, E., Van den Berghe, H. and Cassiman, J.-J.
Non-selective cation and dysfunctional chloride channels in the apical membrane of nasal epithelial cells cultured from cystic fibrosis patients (1096) 52
Jortner, J., see Bixon, M. (1056) 301
Joshi, S. and Huang, Y.
ATP synthase complex from bovine heart mitochondria: The oligomycin sensitivity conferring protein is essential for dicyclohexyl carbodiimide-sensitive ATPase (1067) 255
Judy, D.J., see Rabovsky, J. (1095) 223
Juel, C.
Muscle lactate transport studied in sarcolemmal giant vesicles (1065) 15
Juge, M.-C., see Vanier, M.T. (1096) 328
Juguelin, H., Bessoule, J.J. and Cassagne, C.
Interaction of amphiphilic substrates (acyl-CoAs) and their metabolites (free fatty acids) with microsomes from mouse sciatic nerves (1068) 41
Juguelin, H., see Cassagne, C. (1070) 119
Julien, S., see Molle, G. (1064) 365
Jumarie, C., see Sheppard, J.D. (1064) 13
Jung, C., Ristau, O. and Rein, H.
The high-spin/low-spin equilibrium in cytochrome *P*-450 – A new method for determination of the high-spin content (1076) 130

Jung, C., see Ristau, O. (1078) 321
Jung, C.Y., see Jhun, B.H. (1061) 149
Jung, G., see Blöcher, D. (1065) 160
Jung, K., see Henke, W. (1056) 71
Junge, W., see Jahns, P. (1057) 313
Junor, B.J.R., see McGregor, S.J. (1095) 196
Jurewicz, T.J., see Liteplo, R.G. (1088) 365
Jürgens, U.J. and Mäntele, W.
Orientation of carotenoids in the outer membrane of *Synechocystis* PCC 6714 (Cyanobacteria) (1067) 208
Jurnak, F., see Pieper, U. (1087) 147
Jursinic, P.A., McCarthy, S.A., Bricker, T.M. and Stemler, A.
Characteristics of two atrazine-binding sites that specifically inhibit Photosystem II function (1059) 312
Just, I., see Habermann, B. (1077) 253
Just, W.W., see Heikoop, J.C. (1097) 62
Juul, B., Lüscher, M.E., Aalkjær, C. and Plesner, L.
Nucleotide hydrolytic activity of isolated intact rat mesenteric small arteries (1067) 201
Juul, B., see Plesner, L. (1067) 191
Jyothirmayi, N. and Ramadoss, C.S.
Soybean lipoxygenase catalysed oxygenation of unsaturated fatty acid encapsulated in cyclodextrin (1083) 193

K

Kaan, A., see Zaman, G. (1089) 183
Kaartinen, V.
Glycoasparaginase in human urine (1097) 28
Kabir, F. and Nelson, B.D.
Hexokinase bound to rat brain mitochondria uses externally added ATP more efficiently than internally generated ATP (1057) 147
Kabuyama, Y., see Nishiyama, K.-i. (1065) 89
Kader, J.C., see Geldwerth, D. (1082) 255
Kader, J.-C., see Saar, J. (1075) 93
Kadono, H., see Anzai, K. (1064) 256
Kadrmas, E.F., Ray, P.D. and Lambeth, D.O.
Apparent ATP-linked succinate thiokinase activity and its relation to nucleoside diphosphate kinase in mitochondrial matrix preparations from rabbit (1074) 339
Kagan, B.L.
Inositol 1,4,5-trisphosphate directly opens diphtheria toxin channels (1069) 145
Kagawa, Y., see Harada, M. (1056) 279
Kagawa, Y., see Nishi, N. (1095) 268
Kagawa, Y., see Ohta, T. (1059) 157
Kageyama, H., see Takenaga, K. (1087) 101
Kahana, E., see Streichman, S. (1066) 9
Kahana, E., Streichman, S. and Silver, B.L.
The role of electrostatic forces in the interaction between the membrane and cytoskeleton of human erythrocytes (1066) 1
Kahana, E., Streichman, S. and Silver, B.L.
A simple spectroscopic method for studying erythrocyte ghost resealing (1066) 6
Kahle, C., see Knipper, M. (1065) 107
Kaigawa, S., see Habuchi, O. (1093) 153
Kailey, J.M., see Bratton, D.L. (1062) 24
Kaiser, S., see Devasagayam, T.P.A. (1088) 409
Kaisheva, E., see Stankowski, S. (1069) 77
Kaizuka, M., see Fujii, Y. (1063) 90
Kajander, O., see Åkerman, K. (1097) 140
Kaji, A., see Ito, R. (1096) 245
Kajiyama, G., see Hayashi, K. (1082) 152
Kakimoto, Y., see Ueno, S.-i. (1073) 233
Kakinuma, K., see Fujii, H. (1095) 201
Kalapos, M.P., Garzó, T., Antoni, F. and Mandl, J.
Effect of methylglyoxal on glucose formation, drug oxidation and glutathione content in isolated murine hepatocytes (1092) 284
Kalb, E., see Stankowski, S. (1068) 61
Kalbag, S.S., Roginsky, M.S., Jelveh, Z. and Sulimovici, S.
Phorbol ester, prolactin, and relaxin cause translocation of protein kinase C from cytosol to membranes in human endometrial cells (1094) 85
Kalbitzer, H.R. and Wittinghofer, A.
The effect of kirromycin on the metal ion coordination in complexes of elongation factor Tu from *Bacillus stearothermophilus* as inferred from the ^{17}O-^{55}Mn superhyperfine interaction (1078) 133
Kaletha, K., see Nagel-Starczynowska, G. (1073) 470
Kaletha, K., see Nowak, G. (1078) 303
Kalisz, H.M., Hecht, H.-J., Schomburg, D. and Schmid, R.D.
Effects of carbohydrate depletion on the structure, stability and activity of glucose oxidase from *Aspergillus niger* (1080) 138
Kalsner, I., see Adolf, G.R. (1089) 167
Kalyanaraman, B., see Sinha, B.K. (1096) 81
Kamachi, H., see Tamura, N. (1060) 51
Kamada, Y. and Muto, S.
Ca^{2+} regulation of phosphatidylinositol turnover in the plasma membrane of tobacco suspension culture cells (1093) 72
Kamata, K., see Ohyashiki, T. (1067) 159
Kamaya, H., see Suezaki, Y. (1066) 225
Kamaya, H., see Tamura, K. (1066) 219
Kambara, T., see Shibuya, Y. (1077) 316
Kambara, T., see Shibuya, Y. (1097) 23
Kamemura, K., see Itonori, S. (1081) 321
Kamen, M.D.
International workshop on non-mitochondrial cytochromes *c*. A short foreword with some history (1058) 3
Kameyama, K., see Lundahl, P. (1067) 177
Kameyama, Y., see Mizuno, M. (1084) 21
Kaminogawa, S., see Kobayashi, T. (1077) 11
Kaminoh, Y., see Tamura, K. (1066) 219
Kamioka, Y., see Yamakawa, M. (1087) 247
Kamo, N., see Tawara, E. (1070) 293
Kampfenkel, K., see Scheibe, R. (1076) 1
Kamzolova, S.G., see Ozoline, O.N. (1076) 387
Kan, C.-C., Bittman, R. and Hajdu, J.
Phospholipids containing nitrogen- and sulfur-linked chains: kinetics of cholesterol exchange between vesicles (1066) 95
Kanaho, Y., see Takahashi, S. (1093) 207
Kanai, Y., see Harada, H. (1092) 404
Kanaiwa, T., see Makishima, M. (1094) 1
Kanamori, K., Ross, B.D., Farrow, N.A. and Parivar, F.
A ^{15}N-NMR study of isolated brain in portacaval-shunted rats after acute hyperammonemia (1096) 270
Kanamori, T., see Morishita, H. (1090) 216
Kaneki, M., see Sato, F. (1091) 188
Kaneko, M., see Enami, I. (1060) 224
Kaneko, M., see Suzuki, S. (1074) 95
Kaneko, S.-i., Ichiba, T., Hirano, N. and Hachimori, A.
Modification of a single tryptophan of the inorganic pyrophosphatase from thermophilic bacterium PS-3: possible involvement in its substrate binding (1077) 281
Kanematsu, T., see Kimura, Y. (1069) 218
Kaneski, C., see Argoff, C.E. (1096) 319
Kano, K., see Kim, K.S. (1085) 343
Kaplowitz, N., see Takikawa, H. (1084) 247

Kappes, E., see Legler, G. (1080) 89
Karanutilake, C., see Young, P.R. (1095) 1
Karapetyan, N.V., see Shubin, V.V. (1060) 28
Kariel, N., Davidson, E. and Keough, K.M.W.
Cholesterol does not remove the gel-liquid crystalline phase transition of phosphatidylcholines containing two polyenoic acyl chains (1062) 70
Karin, M., see Angel, P. (1072) 129
Karjalainen Lindsberg, M.-L., see Feuerstein, N. (1087) 127
Karkola, K., see Åkerman, K. (1097) 140
Karli, J.N., see Samouilidou, E.C. (1070) 343
Karsten, W.E. and Viola, R.E.
Chemical and kinetic mechanisms of aspartate-β-semialdehyde dehydrogenase from *Escherichia coli* (1077) 209
Kasai, M., see Ide, T. (1067) 213
Kasama, T., see Kim, K.S. (1085) 343
Kasama, T., see Takikawa, H. (1081) 39
Kasche, V., see Schellenberger, V. (1078) 8
Kaser, M.R., see Skouteris, G.G. (1095) 169
Kashiwayanagi, M., see Enomoto, S. (1062) 7
Kass-Simon, G., see Bellis, S.L. (1061) 89
Kassner, R.J.
Ligand binding properties of cytochromes c' (1058) 8
Kassner, R.J., see Motie, M. (1076) 97
Kastenholz, F., see Legler, G. (1080) 89
Kastner, B., see Lührmann, R. (1087) 265
Katada, T., see Takahashi, S. (1093) 207
Kataoka, H. and Biswas, C.
Nucleotide sequence of a cDNA for the α subunit of human mitochondrial ATP synthase (1089) 393
Kates, M., see Hübner, W. (1066) 166
Kates, M., see Horváth, I. (1085) 126
Kato, A., see Masuda, Y. (1075) 131
Kato, K., Shinohara, H., Kurobe, N., Goto, S., Inaguma, Y. and Ohshima, K.
Immunoreactive αA crystallin in rat non-lenticular tissues detected with a sensitive immunoassay method (1080) 173
Kato, K., Shinohara, H., Kurobe, N., Inaguma, Y., Shimizu, K. and Ohshima, K.
Tissue distribution and developmental profiles of immunoreactive αB crystallin in the rat determined with a sensitive immunoassay system (1074) 201
Kato, K., see Inaguma, Y. (1075) 68
Kato, S., see Takahashi, H. (1069) 229
Kato, T., Lee, S., Ono, S., Agawa, Y., Aoyagi, H., Ohno, M. and Nishino, N.
Conformational studies of amphipathic α-helical peptides containing an amino acid with a long alkyl chain and their anchoring to lipid bilayer liposomes (1063) 191
Kato, T., see Kikugawa, K. (1096) 108
Kato, T., see Kishino, J. (1092) 169
Katoh, S., see Enami, I. (1060) 224
Katoh, S., see Ikegami, I. (1059) 275
Katoh, T. and Fujisawa, H.
Calmodulin-dependent protein kinase II. Kinetic studies on the interaction with substrates and calmodulin (1091) 205
Katsuki, M., see Shimano, H. (1090) 91
Katsumi, R., see Sakai, K. (1079) 65
Katsushima, S., see Kusui, T. (1094) 231
Katz, A.M., see Tian, Q. (1094) 27
Katz, E.P., see Maroudas, A. (1073) 285
Katz, U., see Lichtstein, D. (1073) 65
Kaune, R., see Timmermans, J.A.H. (1065) 177
Kaushansky, K., see Hromas, R. (1090) 241
Kawagishi, H. and Mori, H.
Chemical modification and NMR studies on a mushroom lectin *Ischnoderma resinosum* agglutinin (IRA) (1076) 179
Kawaguchi, H., Shoki, M., Iizuka, K., Sano, H., Sakata, Y. and Yasuda, H.
Phospholipid metabolism and prostacyclin synthesis in hypoxic myocytes (1094) 161
Kawahara, N., see Makishima, M. (1094) 1
Kawai, C., see Kume, N. (1091) 63
Kawamukai, M., see Choi, Y.-L. (1088) 31
Kawamura, A., see Tokunaga, M. (1080) 135
Kawamura, M., see Ohta, T. (1059) 157
Kawamura, Y., see Tamaki, T. (1088) 292
Kawanishi, Y.-i., see Matuda, S. (1089) 1
Kawasaki, T., see Ide, T. (1067) 213
Kawasaki, T., see Matsura, T. (1083) 277
Kawasaki, T., see Satoh, O. (1063) 155
Kawasaki, Y., Saitoh, T., Okabe, T., Kumakura, K. and Ohara-Imaizumi, M.
Visualization of exocytotic secretory processes of mast cells by fluorescence techniques (1067) 71
Kawase, S., see Choi, Y.-L. (1088) 31
Kawashima, S., see Hayashi, M. (1094) 249
Kawauchi, H., see Kobayashi, T. (1078) 383
Kay, J.E., see Goodier, M.R. (1092) 124
Kay, J., see Kille, P. (1089) 407
Kaya, K. and Sano, T.
Definition of total biosynthesis pathway of taurolipids in *Tetrahymena* cells (1084) 101
Kaziro, Y., see Garibay, J.L.R. (1094) 193
Kaziro, Y., see Kumazawa, Y. (1090) 167
Kedinger, C., see Vonwirth, H. (1087) 31
Keelan, M., see Thomson, A.B.R. (1084) 122
Keeling, D.J., see Pope, A.J. (1067) 51
Keen, J.N., see Andrews, S.C. (1078) 111
Keen, J.N., see Legname, G. (1090) 119
Keen, J.N., see Murphy, D.J. (1088) 86
Keen, V., see Dickinson, K. (1073) 177
Kelley, M.R., see Grabowski, D.T. (1090) 115
Kellom, T.A. and O'Conner, J.L.
Effect of luteinizing hormone releasing hormone pulse characteristics on comparative luteinizing hormone and follicle stimulating hormone secretion from superfused rat anterior pituitary cell cultures (1092) 101
Kelly, S.L., see Coroneos, E. (1073) 593
Keltjens, J.T., see Te Brömmelstroet, B.W. (1073) 77
Keltjens, J.T., see Te Brömmelstroet, B.W.J. (1079) 293
Kemp, B.E. and Pearson, R.B.
Intrasteric regulation of protein kinases and phosphatases (1094) 67
Kempson, G.E.
Age-related changes in the tensile properties of human articular cartilage: a comparative study between the femoral head of the hip joint and the talus of the ankle joint (1075) 223
Kempson, S.A., Kunkler, K.J. and Murer, H.
Iodoacetate action on endocytic uptake of different fluid-phase markers by OK renal epithelial cells (1091) 324
Kenmochi, N., Maeda, N. and Tanaka, T.
The primary structure of chicken ribosomal protein L5 (1088) 445
Keon, J.P.R., see Waksman, G. (1073) 43
Keough, D.T., Emmerson, B.T. and De Jersey, J.
Localization of the 5-phospho-α-D-ribosyl-1-pyrophosphate binding site of human hypoxanthine-guanine phosphoribosyltransferase (1096) 95
Keough, D.T., see Free, M.L. (1087) 205
Keough, K.M.W., see Kariel, N. (1062) 70
Keough, K.M.W., see Morrow, M.R. (1070) 209
Keough, K.M.W., see Nag, K. (1068) 157
Keppler, C., see Seitz, J. (1078) 139
Kersten, G.F.A., Spiekstra, A., Beuvery, E.C. and Crommelin, D.J.A.

On the structure of immune-stimulating saponin-lipid complexes (iscoms) (1062) 165
Kettmann, R., see Claes, V. (1087) 339
Kézdy, K.E., see Jonas, A. (1085) 71
Khadouri, C., see El Mernissi, G. (1064) 205
Khan, I., see Spencer, G.G. (1063) 15
Khan, I., see Steinschneider, A. (1093) 102
Khan, I.A. and Ludueña, R.F.
Possible regulation of the in vitro assembly of bovine brain tubulin by the bovine thioredoxin system (1076) 289
Khan, M.Y., see Das, B.K. (1076) 343
Khandelwal, R.L., see Pugazhenthi, S. (1083) 310
Khanh, N.Q., see Ruttkowski, E. (1087) 104
Khoja, S.M. and Abuelgassim, A.O.
Regulation of 6-phosphofructo-1-kinase from the epithelial cells of rat small intestine during pregnancy and lactation (1074) 357
Khoja, S.M., Abuelgassim, A.O. and Salem, A.M.
6-Phosphofructo-1-kinase of rat placenta (1076) 61
Khoshtariya, D.E., Hammerstad-Pedersen, J.M. and Ulstrup, J.
Substrate specificity of solvent viscosity effects in carboxypeptidase A catalyzed peptide hydrolysis (1076) 359
Khosla, P. and Hayes, K.C.
Dietary fat saturation in rhesus monkeys affects LDL concentrations by modulating the independent production of LDL apolipoprotein B (1083) 46
Khoury, A.M., Joo Lee, H., Lillis, M. and Lu, P.
Lac repressor-operator interaction: DNA length dependence (1087) 55
Khramtsov, V.V. and Marsh, D.
Measurement of the local translational diffusion rates of proteins by saturation transfer EPR spectroscopy (1068) 257
Khullar, M., see Khurana, S. (1097) 171
Khuller, G.K., see Bindra, A. (1081) 61
Khurana, S., Ganguly, N.K., Khullar, M., Panigrahi, D. and Walia, B.N.S.
Studies on the mechanism of *Salmonella typhimurium* enterotoxin-induced diarrhoea (1097) 171
Kietz, D., Bartel, D., Lepke, S. and Passow, H.
pH-dependence of inhibition by H_2DIDS of mouse erythroid band 3-mediated Cl^- transport in *Xenopus* oocytes. The effect of oligonucleotide-directed replacement of Lys-558 by an Asn residue (1064) 81
Kihara, F. and Ariga, H.
A eukaryotic nuclear protein of 130 kDa binds to a bacterial cAMP responsive element (1089) 227
Kikugawa, K., Kato, T., Beppu, M. and Hayasaka, A.
Development of fluorescence and cross-links in eye lens crystallin by interaction with lipid peroxy radicals (1096) 108
Kikuyama, S., see Kobayashi, T. (1078) 383
Kilby, P.M., Bolas, N.M. and Radda, G.K.
^{31}P-NMR study of brain phospholipid structures in vivo (1085) 257
Kille, P., Stephens, P.E. and Kay, J.
Elucidation of cDNA sequences for metallothioneins from rainbow trout, stone loach and pike liver using the polymerase chain reaction (1089) 407
Killian, J.A., see Vogt, T.C.B. (1069) 157
Kim, D.H., see Tian, Q. (1094) 27
Kim, D.K., Kudo, I. and Inoue, K.
Purification and characterization of rabbit platelet cytosolic phospholipase A_2 (1083) 80
Kim, H.W., see Szymańska, G. (1091) 127
Kim, J., see Adachi, K. (1079) 268
Kim, J.W., Komano, H. and Natori, S.
Purification of a stage-specific and sequence-specific DNA-binding protein for the arylphorin gene of *Sarcophaga peregrina* (1089) 21
Kim, K.S., Kano, K., Kasama, T., Ishii, Y., Yamashita, H. and Seyama, Y.
Effects of cholestanol feeding on corneal dystrophy in mice (1085) 343
Kim, Y.T. and Churchich, J.E.
4-Aminobutyrate aminotransferase: identification of lysine residues connected with catalytic activity (1077) 187
Kimura, H., see Sakurai, T. (1086) 273
Kimura, M., see Jan, C.-Y. (1086) 7
Kimura, S., see Sakurai, T. (1086) 273
Kimura, Y., Kanematsu, T., Watanabe, Y., Ozaki, S., Koga, T. and Hirata, M.
Synthetic inositol 1,3,4,5-tetrakisphosphate analogs and their effect on the binding to microsomal fraction of rat cerebellum (1069) 218
Kimura, Y., Yamaguchi, O., Suehisa, H. and Takagi, S.
In vitro hydrolysis of oligomannose-type sugar chains by an α-1,2-mannosidase from microsomes of developing castor bean cotyledons (1075) 6
Kinchington, P.R., see Feuerstein, N. (1087) 127
King, S.C., Hansen, C.L. and Wilson, T.H.
The interaction between aspartic acid 237 and lysine 358 in the lactose carrier of *Escherichia coli* (1062) 177
Kini, R.M. and Evans, H.J.
Inhibition of platelet aggregation by a fibrinogenase from *Naja nigricollis* venom is independent of fibrinogen degradation (1095) 117
Kinne, R.K.H., see Brechue, W.F. (1066) 201
Kinne, R.K.H., see Centelles, J.J. (1065) 239
Kinne, R.K.H., see Morrison, A.I. (1089) 121
Kinne-Saffran, E., see Brechue, W.F. (1066) 201
Kino, H., see Nishimura, K. (1086) 141
Kinosian, H.J., Selden, L.A., Estes, J.E. and Gershman, L.C.
Thermodynamics of actin polymerization; influence of the tightly bound divalent cation and nucleotide (1077) 151
Kinsella, J.E., see Hardardottir, I. (1095) 187
Kinzel, V., see Wiemann, S. (1089) 254
Kirilovsky, D., Ducruet, J.-M. and Etienne, A.-L.
Apparent destabilization of the S_1 state related to herbicide resistance in a cyanobacterium mutant (1060) 37
Kirino, Y., see Anzai, K. (1064) 256
Kirino, Y., see Hirashima, N. (1067) 235
Kirk, C.L., see Iverson, S.J. (1083) 109
Kirk, K., Ashworth, K.J., Elford, B.C., Pinches, R.A. and Ellory, J.C.
Characteristics of $^{86}Rb^+$ transport in human erythrocytes infected with *Plasmodium falciparum* (1061) 305
Kirkland, J.B.
Lipid peroxidation, protein thiol oxidation and DNA damage in hydrogen peroxide-induced injury to endothelial cells: role of activation of poly(ADP-ribose)polymerase (1092) 319
Kirszbaum, L., see Ehnholm, C. (1086) 255
Kishino, J., Hanasaki, K., Kato, T. and Arita, H.
Synergistic effect of thromboxane A_2 and *N*-formylmethionylleucylphenylalanine on platelet-activating factor synthesis in human polymorphonuclear neutrophils (1092) 169
Kisielewski, A.E., see Stubbs, C.D. (1070) 349
Kiso, U., Henschen, A., Bohn, H., Heimburger, N., Radtke, K.-P., Lecander, I. and Åstedt, B.
Identity between the placental protein PP10 and the specific plasminogen activator inhibitor of placental type PAI-2 (1074) 74
Kispal, G., Cseko, J., Alkonyi, I. and Sandor, A.
Isolation and characterization of carnitine acetyltransferase from *S. cerevisiae* (1085) 217
Kistanova, E., see Titomirov, A.V. (1088) 131
Kister, J., see Wajcman, H. (1096) 60
Kita, T., see Kume, N. (1091) 63
Kitagawa, M., Williams, J.A. and De Lisle, R.C.

Interactions of intracellular mediators of amylase secretion in permeabilized pancreatic acini (1073) 129
Kitagawa, Y., Shima, H., Sasaki, K. and Nagao, M.
Identification of the promoter region of the rat protein phosphatase 2Aα gene (1089) 339
Kitamura, N., see Enami, I. (1060) 224
Kitani, K., see Carrillo, M.-C. (1077) 325
Kitchens, R.T., see Srivastava, R.A.K. (1086) 29
Kito, Y., see Hiraki, K. (1077) 355
Kitto, G.B., see Mauri, F. (1078) 63
Kiyoki, M., see Matsumoto, K. (1092) 311
Kiyosawa, K.
Volumetric properties of polyols (ethylene glycol, glycerol, *meso*-erythritol, xylitol and mannitol) in relation to their membrane permeability: group additivity and estimation of the maximum radius of their molecules (1064) 251
Klappe, K., see Pedroso de Lima, M.C. (1070) 446
Klapper, M.H., see Weinstein, M. (1076) 173
Klatzmann, D., see Idziorek, T. (1062) 39
Kleiman de Pisarev, D.L., Ferramola de Sancovich, A.M. and Sancovich, H.A.
Studies on the decrease of liver cytochrome *P*-450 content by triiodothyronine (1074) 172
Klein, R., see Barbacid, M. (1072) 115
Klein, T.E., see Compadre, C.M. (1079) 43
Klein, W., see Van der Pal, R.H.M. (1081) 315
Kleinherenbrink, F.A.M., Aartsma, T.J. and Amesz, J.
Charge separation and formation of bacteriochlorophyll triplets in *Heliobacterium chlorum* (1057) 346
Klemm, U., Flake, A. and Engel, W.
Rat sperm acrosin: cDNA sequence, derived primary structure and phylogenetic origin (1090) 270
Klerks, P.L., see Roesijadi, G. (1074) 230
Klibanov, A.L., Maruyama, K., Beckerleg, A.M., Torchilin, V.P. and Huang, L.
Activity of amphipathic poly(ethylene glycol) 5000 to prolong the circulation time of liposomes depends on the liposome size and is unfavorable for immunoliposome binding to target (1062) 142
Klibanov, A.L., see Zhou, X. (1065) 8
Klingler, J., see Fromherz, P. (1062) 103
Klöck, G. and Kreuzberg, K.
Compartmented metabolite pools in protoplasts from the green alga *Chlamydomonas reinhardtii*: changes after transition from aerobiosis to anaerobiosis in the dark (1073) 410
Klöck, G., see Pfister, E. (1062) 13
Klucis, E., Crane, D.I., Hughes, J.L., Poulos, A. and Masters, C.J.
Identification of a catalase-negative sub-population of peroxisomes induced in mouse liver by clofibrate (1074) 294
Knaff, D.B. and Hirasawa, M.
Ferredoxin-dependent chloroplast enzymes (1056) 93
Knaff, D.B., see Hobbs, J.D. (1059) 37
Knight, C.R.L., Rees, R.C. and Griffin, M.
Apoptosis: a potential role for cytosolic transglutaminase and its importance in tumour progression (1096) 312
Knight, S.A.B., Kohr, W. and Korc, M.
Manganese-stimulated phosphorylation of a rat pancreatic protein: identity with elongation factor 2 (1092) 196
Knipper, M., Kahle, C. and Breer, H.
Purification and reconstitution of the high affinity choline transporter (1065) 107
Knippers, R., see Schray, B. (1087) 226
Knöchel, W., see Plessow, S. (1089) 280
Knox, R., Stein, I., Levinson, D., Tso, P. and Mansbach, II, C.M.
Effect of fat pre-feeding on bile flow and composition in the rat (1083) 65
Knubben, H.J.M., see Vork, M.M. (1075) 199
Knudsen, J., see Højrup, P. (1077) 220
Knudsen, J., see Wullink, W. (1060) 97
Ko, C., see McDonald, J.R. (1090) 70
Ko, K.W.S., see Francis, G.A. (1084) 159
Ko, K.W.S., see Milner, T.G. (1082) 71
Kobata, A., see Nagata, Y. (1076) 187
Kobayashi, M., Miura, M., Asou, H. and Uyemura, K.
Molecular cloning of cell adhesion molecule L1 from human nervous tissue: a comparison of the primary sequences of L1 molecules of different origin (1090) 238
Kobayashi, M., Van de Meent, E.J., Erkelens, C., Amesz, J., Ikegami, I. and Watanabe, T.
Bacteriochlorophyll *g* epimer as a possible reaction center component of heliobacteria (1057) 89
Kobayashi, M., see Iseki, K. (1068) 105
Kobayashi, M., see Kusunoki, C. (1087) 95
Kobayashi, M., see Suzuki, N. (1092) 367
Kobayashi, T., Ametani, A., Yamauchi, K. and Kaminogawa, S.
Differences in defining residues relevant to antibody binding by ELISA and proteolysis protection at the level of peptide antigenic determinants (1077) 11
Kobayashi, T. and Goto, I.
A sensitive assay of lysogangliosides using high-performance liquid chromatography (1081) 159
Kobayashi, T., Yasuda, A., Yamaguchi, K., Kawauchi, H. and Kikuyama, S.
The complete amino acid sequence of growth hormone of the bullfrog (*Rana catesbeiana*) (1078) 383
Kobayashi, Y., see Harada, M. (1056) 279
Kocharov, S.L., see Melikyan, G.B. (1068) 245
Kochevar, I.E., see Allen, M.T. (1075) 42
Kochi, H., see Abe, S. (1077) 259
Kochibe, N., see Nagata, Y. (1076) 187
Koepsell, H., see Steffgen, J. (1066) 14
Koepsell, H., see Weber, W.-M. (1063) 73
Koga, A., see Chijiiwa, K. (1086) 44
Koga, T., see Kimura, Y. (1069) 218
Koga, T., see Nakano, S. (1094) 263
Koga, T., see Yanaga, F. (1094) 139
Koga, Y., see Nishihara, M. (1082) 211
Kohmoto, S., see Maruo, K. (1074) 62
Kohr, W., see Knight, S.A.B. (1092) 196
Koike, H., Shinohara, Y. and Terada, H.
Why is inorganic phosphate necessary for uncoupling of oxidative phosphorylation by Cd^{2+} in rat liver mitochondria? (1060) 75
Koike, H., see Enami, I. (1060) 224
Kojima, K., see Ishihara, H. (1084) 53
Kojima, M., see Tada, M. (1090) 29
Kojo, S., see Tsukamoto, I. (1074) 52
Kojo, S., see Tsukamoto, I. (1079) 348
Kolchanov, N.A., see Rogozin, I.B. (1089) 175
Kollárová, M., see Farkašovský, M. (1088) 119
Koller, M., Schnyder, B. and Strehler, E.E.
Structural organization of the human *CaMIII* calmodulin gene (1087) 180
Kołoczek, H., Waśniowska, A., Potempa, J. and Wasylewski, Z.
The fluorescence quenching resolved spectra and red-edge excitation fluorescence measurements of human α_1-proteinase inhibitor (1073) 619
Komano, H., see Kim, J.W. (1089) 21
Komano, T., see Choi, Y.-L. (1088) 31
Komatsu, N., see Natsui, K. (1085) 241
Kominami, E., see Tanabe, H. (1094) 281
Kominami, S., see Higuchi, A. (1084) 240
Komiyama, T., see Sakajo, S. (1090) 102
Kommer, W., see Kraupp, M. (1070) 157
Komoda, T., see Koyama, I. (1080) 165
Komoda, Y., see Okamura, Y. (1073) 538

Komyoji, T., see Guo, Z.-j. (1056) 89
Komyoji, T., see Guo, Z.-j. (1059) 91
Kon, K., see Nakao, T. (1086) 305
Kondratenko, N., see Quinn, M.T. (1082) 293
Konings, R., see Zaman, G. (1089) 183
Konings, W.N., see In 't Veld, G. (1065) 203
Koningsberger, D.C., see Lommen, A. (1076) 439
Konishi, J., see Kusui, T. (1094) 231
Kono, M., see Asada, H. (1080) 34
Kopp, S.J., see Barron, J.T. (1073) 550
Kopp, S.J., see Barron, J.T. (1093) 125
Kopperschlager, G., see Goubran Botros, H. (1074) 69
Korc, M., see Knight, S.A.B. (1092) 196
Korepanova, O.B., see Mikhailenko, I.A. (1085) 299
Kormanec, J., see Farkašovský, M. (1088) 119
Kornecki, E., see Naik, U.P. (1092) 256
Körtner, C., see Degli Esposti, M. (1056) 243
Korzeniewski, B. and Froncisz, W.
An extended dynamic model of oxidative phosphorylation (1060) 210
Kosano, H., see Wada, S. (1074) 182
Koschel, K., see Tas, P.W.L. (1091) 401
Koseki, K., see Tsuge, H. (1078) 77
Koshi, S., Inoue, M., Obayashi, H. and Miyauchi, Y.
Inhibition of post-ischemic reperfusion injury of the small intestine by diamine oxidase (1075) 231
Koshkin, A.A., see Sud'ina, G.F. (1091) 257
Kosk, M., see Schellenberger, V. (1078) 1
Kosovsky, M.J. and Soslau, G.
Mitochondrial DNA topoisomerase I from human platelets (1078) 56
Koster, H.P.G., see Van der Hijden, H.T.W.M. (1061) 141
Köster, M., see Plessow, S. (1089) 280
Kostner, G.M., see Sattler, W. (1081) 65
Kotani, K., see Ueno, S.-i. (1073) 233
Kotb, M., see De La Rosa, J. (1077) 225
Kottke, B.A., see Carlson, T.L. (1083) 221
Kottke, M., Adams, V., Wallimann, T., Nalam, V.K. and Brdiczka, D.
Location and regulation of octameric mitochondrial creatine kinase in the contact sites (1061) 215
Koul, H.K., Thind, S.K. and Nath, R.
Oxalate binding to rat intestinal brush-border membrane in pyridoxine deficiency: a kinetic study (1064) 184
Kousvelari, E., see Yeh, C.-K. (1090) 173
Koval, M. and Pagano, R.E.
Intracellular transport and metabolism of sphingomyelin (1082) 113
Kovalysheva, G.V., see Gusakov, A.V. (1073) 481
Kowalska-Loth, B., see Staron, K. (1088) 36
Koyama, I., Fujimori-Arai, Y., Hirota, N., Sakai, T., Sakagishi, Y. and Komoda, T.
Liver-like alkaline phosphatase in the tissue-unspecific type enzyme found in rabbit organs (1080) 165
Koyama, S.-y., see Satoh, O. (1063) 155
Koynova, R.D., see Williams, W.P. (1062) 123
Kozaki, Y., see Muramatu, M. (1087) 87
Kozasa, T., see Garibay, J.L.R. (1094) 193
Kraakman, L.S., Mager, W.H., Grootjans, J.J. and Planta, R.J.
Functional analysis of the promoter of the gene encoding the acidic ribosomal protein L45 in yeast (1090) 204
Kraayenhof, R., see Lankelma, J. (1093) 147
Krafft, M.-P., see Postel, M. (1086) 95
Kraft, R., see Bommer, U.-A. (1079) 308
Kramer, K.J., see Czapla, T.H. (1077) 400
Kranias, E.G., see Szymańska, G. (1091) 127
Krapivinsky, G.B., see Filatova, E.A. (1064) 293
Krasilnikov, O.V., Muratkhodjaev, J.N., Voronov, S.E. and Yezepchuk, Y.V.
The ionic channels formed by cholera toxin in planar bilayer lipid membranes are entirely attributable to its B-subunit (1067) 166
Kraupp, M., Marz, R., Prager, G., Kommer, W., Razavi, M., Baghestanian, M. and Chiba, P.
Adenine and hypoxanthine transport in human erythrocytes: distinct substrate effects on carrier mobilty (1070) 157
Krauthamer, V., see Bowmaster, T.A. (1091) 9
Krawczyk, J. and Cukierman, S.
The nature of the conductance increase induced by filipin in cholesterol-containing planar lipid bilayers (1063) 60
Krawczyk, S.
Electrochromism of chlorophyll *a* monomer and special pair dimer (1056) 64
Kredich, N.M., see De La Rosa, J. (1077) 225
Kreinin, M.O., see Rabinovich, Y.M. (1089) 193
Kretschmann, H., Pauly, S. and Witt, H.T.
Evidence for a chemical reaction of hydroxylamine with the photosynthetic water splitting enzyme S in the dark – possible states of manganese and water in the S cycle (1059) 208
Kretsinger, R.H., see Permyakov, E.A. (1076) 67
Kreutz, W., see Barth, A. (1057) 115
Kreuzberg, K., see Klöck, G. (1073) 410
Krieger, J., Raming, K. and Breer, H.
Cloning of genomic and complementary DNA encoding insect pheromone binding proteins: evidence for microdiversity (1088) 277
Krinks, M.H., see Gagliardino, J.J. (1091) 370
Krisinger, J., see Strom, M. (1090) 299
Kristensen, S.R.
Cell damage caused by ATP depletion is reduced by magnesium and nickel in human fibroblasts – a non-specific calcium antagonism? (1091) 285
Kröger, A., see Degli Esposti, M. (1056) 243
Kröger, A., see Lemma, E. (1059) 281
Kröger, H., see Götz, F. (1087) 323
Krogmann, D.W.
The low-potential cytochrome *c* of cyanobacteria and algae (1058) 35
Kroll, M.H., see Luzzatto, G. (1084) 78
Krömer, S. and Heldt, H.W.
Respiration of pea leaf mitochondria and redox transfer between the mitochondrial and extramitochondrial compartment (1057) 42
Krstenansky, J.L., see McLean, L.R. (1086) 106
Kruckeberg, W.C.
Factors influencing variable oxidative hemolysis of inbred mouse erythrocytes (1094) 288
Krug, A., see Kubareva, E.A. (1088) 395
Krüppel, T., Westermann, R. and Lueken, W.
Calcium-dependent transient potassium outward current in the marine ciliate *Euplotes vannus* (1062) 193
Kruth, H.S., see Argoff, C.E. (1096) 319
Kruuv, J., see Lalonde, R.J. (1079) 128
Kubareva, E.A., Gromova, E.S., Pein, C.-D., Krug, A., Oretskaya, T.S., Cech, D. and Shabarova, Z.A.
Oligonucleotide cleavage by restriction endonucleases *Mva*I and *Eco*RII: a comprehensive study on the influence of structural parameters on the enzyme–substrate interaction (1088) 395
Kube, E., see Newman, P. (1080) 227
Kubicek, C.P., see Luderer, M.E.H. (1076) 427
Kübler, W., see Von Hodenberg, E. (1086) 173
Kubo, T., see Ito, R. (1096) 245
Kubo, T., see Nanbu, R. (1088) 71
Kuboki, Y., see Fujisawa, R. (1075) 56
Kubota, K., see Oyama, M. (1092) 85
Kubota, Y., Takahashi, H., Yoshino, T. and Tsuchiya, T.

Chaos-theoretical analysis of possible structural quantities for globular proteins (1079) 73
Kudo, I., see Kim, D.K. (1083) 80
Kudo, I., see Masuda, M. (1083) 235
Kuentzel, S.L., see Takakura, Y. (1070) 1
Kuentzel, S.L., see Takakura, Y. (1070) 11
Kugai, N., see Wada, S. (1074) 182
Kuhl, P. and Halling, P.J.
Salt hydrates buffer water activity during chymotrypsin-catalysed peptide synthesis (1078) 326
Kuhlenkamp, J., see Takikawa, H. (1084) 247
Kühn, H., Heydeck, D. and Sprecher, H.
On the mechanistic reasons for the dual positional specificity of the reticulocyte lipoxygenase (1081) 129
Kuipers, F., see Wolters, H. (1069) 61
Kukkonen, J., see Jansson, C.C. (1095) 255
Kulseth, M.A., see Myrset, A.H. (1070) 229
Kulys, J.J., see Bironaite, D.A. (1060) 203
Kulys, J.J., see Čénas, N.K. (1073) 195
Kumagai, H., see Okada, H. (1078) 377
Kumagai, H., see Tamaki, H. (1089) 276
Kumagai, H., see Yohda, M. (1089) 234
Kumagai, N., see Tanabe, H. (1094) 281
Kumakura, K., see Kawasaki, Y. (1067) 71
Kumazawa, Y., Schwartzbach, C.J., Liao, H.-X., Mizumoto, K., Kaziro, Y., Miura, K.-i., Watanabe, K. and Spremulli, L.L.
Interactions of bovine mitochondrial phenylalanyl-tRNA with ribosomes and elongation factors from mitochondria and bacteria (1090) 167
Kume, N., Arai, H., Kawai, C. and Kita, T.
Receptors for modified low-density lipoproteins on human endothelial cells: Different recognition for acetylated low-density lipoprotein and oxidized low-density lipoprotein (1091) 63
Kummerow, F.A., see Zhou, Q. (1085) 1
Kundu, M., Basu, J., Fujimagari, M., Williamson, P., Schlegel, R.A. and Chakrabarti, P.
Altered erythrocyte protein kinase C activity and membrane protein phosphorylation in chronic myelogenous leukemia (1096) 205
Kunkel, G.R.
RNA polymerase III transcription of genes that lack internal control regions (1088) 1
Kunkler, K.J., see Kempson, S.A. (1091) 324
Künnecke, B. and Seelig, J.
Glycogen metabolism as detected by in vivo and in vitro ^{13}C-NMR spectroscopy using [1,2-$^{13}C_2$]glucose as substrate (1095) 103
Kunz, B.C., Vergères, G., Winterhalter, K.H. and Richter, C.
Chemical modification of rat liver microsomal cytochrome *P*-450: study of enzymic properties and membrane topology (1063) 226
Kunz, W.S., see Halangk, W. (1056) 273
Kurachi, K., see Tsuji, A. (1078) 85
Kuramochi, S., see Yanagisawa, H. (1088) 380
Kuramshin, R.A., see Grechkin, A.N. (1081) 79
Kuramshin, R.A., see Grechkin, A.N. (1086) 317
Kurashige, T., see Tomoda, T. (1088) 359
Kurihara, H., Nakano, T., Takasu, N. and Arita, H.
Intracellular localization of group II phospholipase A_2 in rat vascular smooth muscle cells and its possible relationship to eicosanoid formation (1082) 285
Kurihara, K., see Enomoto, S. (1062) 7
Kurihara, Y., see Igeta, H. (1079) 303
Kuriki, H., see Ishihara, H. (1084) 53
Kurobe, N., see Inaguma, Y. (1075) 68
Kurobe, N., see Kato, K. (1074) 201
Kurobe, N., see Kato, K. (1080) 173
Kurokawa, K., see Watanabe, T. (1074) 398
Kurokawa, R., Kyakumoto, S. and Ota, M.
Retinoic acid receptor in subclone of human salivary gland adenocarcinoma cell line HSG and effect of retinoic acid on cellular growth (1095) 63
Kurokawa, T., see Fujii, Y. (1063) 90
Kurokawa, T., see Yamashita, A. (1091) 46
Kuroki, Y., Shiratori, M., Ogasawara, Y., Tsuzuki, A. and Akino, T.
Characterization of pulmonary surfactant protein D: its copurification with lipids (1086) 185
Kuroki, Y., see Ogasawara, Y. (1083) 252
Kuroki, Y., see Shimizu, H. (1081) 53
Kurucsev, T., see Saalman, E. (1064) 124
Kuruma, I., see Funaki, T. (1078) 43
Kurushima, H., see Hayashi, K. (1082) 152
Kuruvilla, A.K., Perez, C., Ismail-Beigi, F. and Loeb, J.N.
Regulation of glucose transport in Clone 9 cells by thyroid hormone (1094) 300
Kurzchalia, T.V., see Bommer, U.-A. (1079) 308
Kurzion, T., see Sauer, A. (1063) 203
Kushwaha, R.S. and Born, K.M.
Effect of estrogen and progesterone on the hepatic cholesterol 7α-hydroxylase activity in ovariectomized baboons (1084) 300
Kusui, T., Sato, S., Katsushima, S., Honda, T., Shigeno, C. and Konishi, J.
Cholecystokinin receptor occupation and cholecystokinin-induced calcium mobilization in the early phase in rat pancreatic acini (1094) 231
Kusunoki, C., Satoh, S., Kobayashi, M. and Niwa, M.
Structure of genomic DNA for rat platelet phospholipase A_2 (1087) 95
Kutchai, H., Boyd, K., Xu, Q. and Weis, C.P.
Influence of the 53 kDa glycoprotein on the cooperativity of the Ca^{2+}-ATPase of the sarcoplasmic reticulum (1064) 49
Kutchai, H., see Mahaney, J.E. (1064) 55
Kuzminskaya, E.V., Asryants, R.A. and Nagradova, N.K.
Rabbit muscle tetrameric D-glyceraldehyde-3-phosphate dehydrogenase is locked in the asymmetric state by chemical modification of a single arginine per subunit (1075) 123
Kuznetsov, A.V., see Saks, V.A. (1074) 302
Kuzuya, F., see Kuzuya, M. (1084) 198
Kuzuya, F., see Kuzuya, M. (1096) 155
Kuzuya, M., Naito, M., Funaki, C., Hayashi, T., Asai, K. and Kuzuya, F.
Lipid peroxide and transition metals are required for the toxicity of oxidized low density lipoprotein to cultured endothelial cells (1096) 155
Kuzuya, M., Yamada, K., Hayashi, T., Funaki, C., Naito, M., Asai, K. and Kuzuya, F.
Oxidation of low-density lipoprotein by copper and iron in phosphate buffer (1084) 198
Kvanta, A., Jondal, M. and Fredholm, B.B.
CD3-dependent increase in cyclic AMP in human T-cells following stimulation of the CD2 receptor (1093) 178
Kwak, J.Y., Takeshige, K., Cheung, B.S. and Minakami, S.
Bilirubin inhibits the activation of superoxide-producing NADPH oxidase in a neutrophil cell-free system (1076) 369
Kwiatkowska, C.A., see Hanley, A.B. (1074) 40
Kyakumoto, S., see Kurokawa, R. (1095) 63

L

Labitzke, R., see Ruttkowski, E. (1087) 104
Labotka, R.J., see Galanter, W.L. (1079) 146
Lacave, C., see Lopez-Marin, L.M. (1086) 22
Lacey, J.C., Thomas, R.D., Staves, M.P. and Watkins, C.L.
Stereoselective formation of bis(α-aminoacyl) esters of 5′-AMP suggests a primitive peptide synthesizing system with a preference for L-amino acids (1076) 395
Lacombe, C., see Viallard, V. (1085) 265
Lacort, M., see Martinez, M.J. (1085) 106
Lacoste, I., Harvey, B.J. and Ehrenfeld, J.
Cl^- permeability of the basolateral membrane of the *Rana esculenta* epithelium: activation of Cl^-/HCO_3^- exchange by alkaline intracellular pH (1063) 103
Laczko, J., see Harsfalvi, J. (1073) 268
Ladisch, S., see Li, R. (1083) 57
Lafarge-Frayssinet, C., see Lechner, M.C. (1087) 157
Lafer, G., Szolderits, G., Paltauf, F. and Daum, G.
Isolation of a phosphatidylserine transfer protein from yeast cytosol (1069) 139
Laferrière, A. and Beyer, P.
Purification of geranylgeranyl diphosphate synthase from *Sinapis alba* etioplasts (1077) 167
Lafont, H., see Grataroli, R. (1082) 130
Lagana, A., see Miccheli, A. (1095) 90
Lagarde, M., see Chabannes, B. (1093) 47
Lagarde, M., see Sarda, N. (1081) 75
Lageweg, W., Sykes, J.E.C., Lopes-Cardozo, M. and Wanders, R.J.A.
Oxidation of very-long-chain fatty acids in rat brain: cerotic acid is β-oxidized exclusively in rat brain peroxisomes (1085) 381
Laggner, P., see Lohner, K. (1061) 132
Lagos, A., see Allen, M.T. (1075) 42
Lagos, N., see Asotra, K. (1081) 229
Lagrost, L. and Barter, P.J.
Effects of various non-esterified fatty acids on the particle size redistribution of high density lipoproteins induced by the human cholesteryl ester transfer protein (1082) 204
Lagrost, L. and Barter, P.J.
Effects of various non-esterified fatty acids on the transfer of cholesteryl esters from HDL to LDL induced by the cholesteryl ester transfer protein (1085) 209
Lagueux, J., see Desmarais, Y. (1078) 179
Lagunas, R., see Benito, B. (1063) 265
Lahm, H.-W., see Bertocci, B. (1080) 103
Lai, K.K., Moura, I., Liu, M.Y., LeGall, J. and Yue, K.T.
Direct evidence of the metal-free nature of sirohydrochlorin in desulfoviridin (1060) 25
Laing, I., see Arrol, S. (1086) 72
Lal, S., see Lamba, O.P. (1081) 181
Lalonde, R.J., Lepock, J.R. and Kruuv, J.
Site of freeze-thaw damage and cryoprotection by amino acids of the calcium ATPase of sarcoplasmic reticulum (1079) 128
LaMarre, J., Wollenberg, G.K., Gonias, S.L. and Hayes, M.A.
Reaction of α_2-macroglobulin with plasmin increases binding of transforming growth factors-β1 and β2 (1091) 197
Lamba, O.P., Lal, S., Yappert, M.C., Lou, M.F. and Borchman, D.
Spectroscopic detection of lipid peroxidation products and structural changes in a sphingomyelin model system (1081) 181
Lambacher, A., see Fromherz, P. (1068) 149
Lamballe, F., see Barbacid, M. (1072) 115
Lambert, B., see Steen, A.-M. (1088) 77
Lambeth, D.O., see Kadrmas, E.F. (1074) 339
Lamers, W.H., see Van den Hoff, M.J.B. (1090) 249
Lamotte-Brasseur, J., Dive, G., Lamouri, A., Heymans, F. and Godfroid, J.-J.
PAF-receptor. III. Conformational and electronic properties of PAF-like agonists and antagonists (1085) 91
Lamouri, A., see Lamotte-Brasseur, J. (1085) 91
Lander, D.J., see Divecha, N. (1093) 184
Landis, B.A., see Quarfordt, S.H. (1082) 247
Landon, M., see Mayer, R.J. (1089) 141
Landry, S. and Zannis-Hadjopoulos, M.
Classes of autonomously replicating sequences are found among early-replicating monkey DNA (1088) 234
Landry, Y., see Bronner, C. (1070) 321
Lane, A., Graham, L., Cook, M., Chantry, D., Green, F., Nigon, F. and Humphries, S.E.
Cytokine production by cholesterol-loaded human peripheral monocyte-macrophages: the effect on fibrinogen mRNA levels in a hepatoma cell-line (HepG2) (1097) 161
Laneelle, G., see Lopez-Marin, L.M. (1086) 22
Laneuville, O., Corey, E.J., Couture, R. and Pace-Asciak, C.R.
Hepoxilin A_3 (HxA_3) is formed by the rat aorta and is metabolized into HxA_3-C, a glutathione conjugate (1084) 60
Lang, F., Paulmichl, M., Pfeilschifter, J., Friedrich, F., Wöll, E., Waldegger, S., Ritter, M. and Tschernko, E.
Cellular mechanisms of bradykinin-induced hyperpolarization in renal epitheloid MDCK-cells (1073) 600
Lang, F., see Häussinger, D. (1071) 331
Lang, F., see Weiss, H. (1069) 165
Langan, T., see Sola, M.M. (1094) 211
Lange, D.G., see Phelan, A.M. (1067) 97
Langer, R., see Cohen, S. (1063) 95
Langlais, D.B. and Davis, J.H.
Carboxyl group orientation in *K*-palmitate/water using ^{13}C double resonance spectroscopy (1073) 236
Langmore, J.P., see Tsuji, A. (1078) 85
Langosch, D., Hartung, K., Grell, E., Bamberg, E. and Betz, H.
Ion channel formation by synthetic transmembrane segments of the inhibitory glycine receptor – a model study (1063) 36
Langris, M., see Mounis, A. (1074) 424
Lankelma, J., Mülder, H.S., Van Mourik, F., Wong Fong Sang, H.W., Kraayenhof, R. and Van Grondelle, R.
Cellular daunomycin fluorescence in multidrug resistant 2780^{AD} cells and its relation to cellular drug localisation (1093) 147
Lapière, C.M., see Paye, M. (1073) 437
Lapière, C.M., see Yonemasu, K. (1096) 47
Laprade, R., see Sheppard, J.D. (1064) 13
Laris, P.C., see Bussolati, O. (1070) 305
Larralde, J., see Martínez, J.A. (1093) 111
Larrinoa, I.F. and Heredia, C.F.
Yeast proteinase yscB inactivates the leucyl tRNA synthetase in extracts of *Saccharomyces cerevisiae* (1073) 502
Larson, G., see Falk, P. (1084) 139
Larsson, A. and Erlanson-Albertsson, C.
The effect of pancreatic procolipase and colipase on pancreatic lipase activation (1083) 283
Lasch, J., see Niedermann, G. (1070) 401
Lasic, D.D., Martin, F.J., Gabizon, A., Huang, S.K. and Papahadjopoulos, D.
Sterically stabilized liposomes: a hypothesis on the molecular origin of the extended circulation times (1070) 187
Lastres, P., see Cabañas, C. (1092) 165
László, L., see Mayer, R.J. (1089) 141
Lattes, A., see Urrutigoïty, M. (1079) 209
Latypov, S.K., see Grechkin, A.N. (1081) 79
Latypov, S.K., see Grechkin, A.N. (1086) 317
Laudanna, C., see Berton, G. (1091) 101
Lauf, P.K., see Fujise, H. (1094) 51

Laurent, G.J., see McAnulty, R.J. (1091) 231
Lavergne, J.
Improved UV-visible spectra of the S-transitions in the photosynthetic oxygen-evolving system (1060) 175
Lavergne, J., see Jahns, P. (1057) 313
Lavie, J.-L., see Ouhabi, R. (1060) 293
Lavoie, C., Jolicoeur, M. and Paiement, J.
Accumulation of polyunsaturated free fatty acids coincident with the fusion of rough endoplasmic reticulum membranes (1070) 274
Law, L.W., see Gersten, D.M. (1096) 20
Lawrence, S.S., see Murdock, G.L. (1076) 197
Laynez, J., see Gasset, M. (1068) 9
Lazareva, A.V., see Filatova, E.A. (1064) 293
Lazarow, P.B., see Imanaka, T. (1062) 264
Leader, D.P., Deana, A.D., Marchiori, F., Purves, F.C. and Pinna, L.A.
Further definition of the substrate specificity of the alpha-herpesvirus protein kinase and comparison with protein kinases A and C (1091) 426
Lebenthal, E., see Lin, C.-H. (1093) 65
Leberman, R., Härtlein, M. and Cusack, S.
Escherichia coli seryl-tRNA synthetase: the structure of a class 2 aminoacyl-tRNA synthetase (1089) 287
Leblanc, R.M., see Gruszecki, W.I. (1056) 173
Lecander, I., see Kiso, U. (1074) 74
Lechner, M.C., Barroso, M., Decloitre, F., Lafarge-Frayssinet, C., Ouldelhkim, M. and Frayssinet, C.
Modulation of *P*-450 IIC7 and IIIA1,2 mRNA in pre-neoplastic liver. Effect of promotion by phenobarbital (1087) 157
Leclerc, L., Marden, M. and Poyart, C.
Inhibition of the erythrocyte (Ca^{2+} + Mg^{2+})-ATPase by nonheme iron (1062) 35
Lecoq-Xhonneux, F., see Thiry, M. (1090) 345
Ledezma, E., see Apitz-Castro, R. (1094) 269
Lee, A.G., see Burgess, A.J. (1064) 139
Lee, A.G., see Grimes, E.A. (1064) 335
Lee, A.G., see Stefanova, H.I. (1064) 321
Lee, A.G., see Stefanova, H.I. (1064) 329
Lee, A.G., see Tunwell, R.E.A. (1073) 585
Lee, C.-H., see Ross, R.T. (1056) 317
Lee, D.H., see Tamura, T. (1089) 95
Lee, H.-S., see Hediger, M.A. (1064) 360
Lee, H.A., see Bell, J.D. (1096) 101
Lee, H.C., Booth, K.S., Caughey, W.S. and Ikeda-Saito, M.
Interaction of halides with the cyanide complex of myeloperoxidase: a model for substrate binding to compound I (1076) 317
Lee, H.C., see Walseth, T.F. (1094) 113
Lee, J.-Y., see Hsu, B.-D. (1056) 285
Lee, J.A., see Bell, J.D. (1096) 101
Lee, K.-D., see Huang, S.K. (1069) 117
Lee, K.C., see Allen, T.M. (1061) 56
Lee, L., see Talpas, C.J. (1078) 208
Lee, L.W., see DeMartino, G.N. (1079) 29
Lee, M., see Yue, K.T. (1078) 296
Lee, P.-C., see Lin, C.-H. (1093) 65
Lee, S., see Anzai, K. (1064) 256
Lee, S., see Kato, T. (1063) 191
Leesnitzer, M.A., see Gupte, S.S. (1069) 131
Lefebvre, V., Peeters-Joris, C. and Vaes, G.
Production of gelatin-degrading matrix metalloproteinases ('type IV collagenases') and inhibitors by articular chondrocytes during their dedifferentiation by serial subcultures and under stimulation by interleukin-1 and tumor necrosis factor α (1094) 8
Lefkowitz, R.J., see Lomasney, J.W. (1095) 127
LeGall, J., see Denariaz, G. (1056) 225
LeGall, J., see Lai, K.K. (1060) 25
LeGall, J., see Moura, J.J.G. (1058) 61
Legler, G., Lüllau, E., Kappes, E. and Kastenholz, F.
Bovine *N*-acetyl-β-D-glucosaminidase: affinity purification and characterization of its active site with nitrogen containing analogs of *N*-acetylglucosamine (1080) 89
Legname, G., Bellosta, P., Gromo, G., Modena, D., Keen, J.N., Roberts, L.M. and Lord, J.M.
Nucleotide sequence of cDNA coding for dianthin 30, a ribosome inactivating protein from *Dianthus caryophyllus* (1090) 119
Legoy, M.D., see Sanchez-Montero, J.M. (1078) 345
Legrand, P. and Bensadoun, A.
Stearyl-CoA desaturase activity in cultured rat hepatocytes (1086) 89
Le Grimellec, C., see Giocondi, M.-C. (1064) 315
Le Grimellec, C., see Zlatkine, P. (1065) 225
Leguijt, T. and Hellingwerf, K.J.
Characterization of reaction center/antenna complexes from bacteriochlorophyll-*a*-containing *Ectothiorhodospiraceae* (1057) 353
Lei, K.Y., see Yount, N.Y. (1082) 79
Leibach, F.H., see Tiruppathi, C. (1069) 14
Leitner, E., see Haas, H. (1074) 392
Lelkes, G. and Fodor, I.
Formation of large, membrane skeleton-free erythrocyte vesicles as a function of the intracellular pH and temperature (1065) 135
Lellouche, J.-P., see Antoine, C. (1075) 162
Lemma, E., Hägerhäll, C., Geisler, V., Brandt, U., Von Jagow, G. and Kröger, A.
Reactivity of the *Bacillus subtilis* succinate dehydrogenase complex with quinones (1059) 281
Lemmens, P.J.M.R., see Vossen, R.C.R.M. (1083) 243
Lenarčič, B., see Žerovnik, E. (1078) 313
Lenfant, M., see Servent, D. (1074) 320
Lenhard, L.W., see Perkins, P.S. (1092) 145
Lennarz, W.J. and Strittmatter, W.J.
Cellular functions of metallo-endoproteinases (1071) 149
Lenzen, R., Stremmel, W. and Strohmeyer, G.
Antiarrhythmic drugs impair hepatic uptake and secretory function by different mechanisms in the isolated perfused rat liver (1074) 406
Lenzen, S., see Rustenbeck, I. (1069) 99
Leonard, K., see Serrano, R. (1062) 157
Leoncini, R., see Pagani, R. (1077) 233
Leone, F.A., see Say, J.C. (1074) 256
Leong, W.S., see Caswell, A.M. (1074) 151
Leonidas, D.D., Oikonomakos, N.G. and Papageorgiou, A.C.
Sulphate activates phosphorylase *b* by binding to the Ser (P) site (1076) 305
Lepke, S., see Kietz, D. (1064) 81
Lepock, J.R., see Lalonde, R.J. (1079) 128
Le Quellec, A., see Tani, T. (1095) 249
Le Ret, M., see Awade, A. (1077) 241
Le Rudulier, D., Gloux, K. and Riou, N.
Identification of an osmotically induced periplasmic glycine betaine-binding protein from *Rhizobium meliloti* (1061) 197
Leś, A., see Saint-Martin, H. (1080) 205
Leszczynski, D.E. and Schafer, R.M.
Metabolic conversion of six steroid hormones by human plasma high-density lipoprotein (1083) 18
Leurgans, S.E., see Ross, R.T. (1056) 317
Leven, R.M., see Dalal, K.B. (1070) 253
LeVine, III, H., see Amarant, T. (1079) 214
Levine, M., see Heldman, E. (1091) 417
Levinson, D., see Knox, R. (1083) 65
Levis, G.M., see Samouilidou, E.C. (1070) 343
Levitsky, D.O., see Timonin, I.M. (1066) 43
Levitzki, A., see Daya-Makin, M. (1093) 87
Lewis, M.S., see Chung, S.I. (1076) 448

Lewis, S.A., Clausen, C. and Wills, N.K.
Transport-related modulation of the membrane properties of toad urinary bladder epithelium (1070) 99
Li, J., Saidha, T. and Schiff, J.A.
Purification and properties of two forms of ATP sulfurylase from *Euglena* (1078) 68
Li, L.-B., Zou, Y.-P., Yu, L. and Yu, C.-A.
The catalytic role of subunit IV of the cytochrome b_6-f complex from spinach chloroplast (1057) 215
Li, L.-Y., see Ulrich, A.K. (1089) 362
Li, N., Warren, P.V., Golbeck, J.H., Frank, G., Zuber, H. and Bryant, D.A.
Polypeptide composition of the Photosystem I complex and the Photosystem I core protein from *Synechococcus* sp. PCC 6301 (1059) 215
Li, R. and Ladisch, S.
Shedding of human neuroblastoma gangliosides (1083) 57
Li, S.-R., Alcolado, J.C., Stocks, J., Baroni, M.G., Oelbaum, R.S. and Galton, D.J.
Genetic polymorphisms at the human liver/islet glucose transporter (GLUT2) gene locus in Caucasian and West Indian subjects with type 2 (non-insulin-dependent) diabetes mellitus (1097) 293
Li, S.S., see Barstow, D.A. (1087) 73
Li, X. and Calza, R.E.
Kinetic study of a cellobiase purified from *Neocallimastix frontalis* EB188 (1080) 148
Liao, H.-X., see Kumazawa, Y. (1090) 167
Liao, T.-H., Ho, H.-C. and Abe, A.
Chemical modification of bovine pancreatic deoxyribonuclease with phenylglyoxal – The involvement of Arg-9 and Arg-41 in substrate binding (1079) 335
Liberatore, F., see Ragg, E. (1076) 37
Lichtenberg, D., see Rotenberg, M. (1086) 265
Lichter, J.B. and Storti, R.V.
In vitro transcription analysis of the *Drosophila* tropomyosin and other muscle genes (1088) 419
Lichtstein, D., Gati, I., Babila, T., Haver, E. and Katz, U.
Effect of salt acclimation on digitalis-like compounds in the toad (1073) 65
Lieberman, M.A., see Nagasaki, T. (1094) 330
Liebow, C., see Rothman, S. (1071) 159
Liljenberg, C., see Norberg, P. (1066) 257
Lilley, K.S., Baker, P.J., Britton, K.L., Stillman, T.J., Brown, P.E., Moir, A.J.G., Engel, P.C., Rice, D.W., Bell, J.E. and Bell, E.
The partial amino acid sequence of the NAD^+-dependent glutamate dehydrogenase of *Clostridium symbiosum*: implications for the evolution and structural basis of coenzyme specificity (1080) 191
Lillie, T.H.W., Whalley, T.D. and Gomperts, B.D.
Modulation of the exocytotic reaction of permeabilised rat mast cells by ATP, other nucleotides and Mg^{2+} (1094) 355
Lillis, M., see Khoury, A.M. (1087) 55
Limburg, P.C., see Yap, S.H. (1091) 405
Limongi, P., see Sannia, G. (1073) 114
Lin, C.-H., Lu, R.-B., Lebenthal, E., Luk, G.D. and Lee, P.-C.
Essential role for polyamine biosynthesis in thyroxine stimulated pancreatic development in neonatal rats (1093) 65
Lin, C.-L., see Chang, T. (1090) 261
Lin, H.-n., Wang, Z.-q. and Huang, C.-h.
The influence of acyl chain-length asymmetry on the phase transition parameters of phosphatidylcholine dispersions (1067) 17
Lin, J.-R., see Chau, L.-Y. (1074) 118
Lin, K.-C., Campbell, A. and Shiuan, D.
Binding characteristics of *Escherichia coli* biotin repressor–operator complex (1090) 317
Lin, L. and Hwang, P.L.
Antiproliferative effects of oxygenated sterols: Positive correlation with binding affinities for the antiestrogen-binding sites (1082) 177
Lin, L., see Allen, T.M. (1061) 56
Lin, L.-Y., see Hung, S.-H. (1090) 255
Lin, M.C., Gong, Y., Geoghegan, K.F. and Wilson, F.A.
Characterization of a novel 14 kDa bile acid-binding protein from rat ileal cytosol (1078) 329
Lin, S., Van Amerongen, H. and Struve, W.S.
Ultrafast pump-probe spectroscopy of bacteriochlorophyll *c* antennae in bacteriochlorophyll *a*-containing chlorosomes from the green photosynthetic bacterium *Chloroflexus aurantiacus* (1060) 13
Lin, W.H., see Turcotte, J.G. (1084) 1
Lin, Y.-Z., see Wei, J. (1080) 29
Lin, Y.J., see Crawford, J.M. (1085) 223
Lindau, M. and Gomperts, B.D.
Techniques and concepts in exocytosis: focus on mast cells (1071) 429
Lindsay, A.R.G. and Williams, A.J.
Functional characterisation of the ryanodine receptor purified from sheep cardiac muscle sarcoplasmic reticulum (1064) 89
Lindsey, C.J., see Araujo, G.W. (1074) 167
Lindström, M.B., Persson, J., Thurn, L. and Borgström, B.
Effect of pancreatic phospholipase A_2 and gastric lipase on the action of pancreatic carboxyl ester lipase against lipid substrates in vitro (1084) 194
Link, T., see Degli Esposti, M. (1056) 243
Lins, W., see Ziegler, K. (1061) 287
Lipka, G., see Thurnhofer, H. (1064) 275
Lips, C.J.M., see Van Mansfeld, A.D.M. (1087) 235
Lis, L.J., see Sanderson, P.W. (1067) 43
Liteplo, R.G. and Jurewicz, T.J.
Serum has a differential effect on DNA replication in a human melanoma cell line cultured in methionine or 5′-deoxy-5′-methylthioadenosine (1088) 365
Liu, C., Xu, J.-x., Xiao, Y. and Gu, L.-q.
Inhibition of succinate-ubiquinone reductase by nitrosalicyl-*N*-alkylamides (1057) 373
Liu, C.-S., Chen, J.-M., Chang, C.-H., Chen, S.-W., Teng, C.-M. and Tsai, I.-H.
The amino acid sequence and properties of an edema-inducing Lys-49 phospholipase A_2 homolog from the venom of *Trimeresurus mucrosquamatus* (1077) 362
Liu, C.-S., see Huang, T.-F. (1074) 136
Liu, D., Mori, A. and Huang, L.
Large liposomes containing ganglioside GM_1 accumulate effectively in spleen (1066) 159
Liu, H. and Ryan, R.O.
Role of lipid transfer particle in transformation of lipophorin in insect oocytes (1085) 112
Liu, L.-F. and Tam, M.F.
Nucleotide sequence of a class μ glutathione *S*-transferase from chicken liver (1090) 343
Liu, M.Y., see Lai, K.K. (1060) 25
Liu, M.-Y., see Moura, J.J.G. (1058) 61
Liu, S.-Q., see Bhatnagar, A. (1077) 180
Liu, S.C., see Ho, W.K.K. (1088) 311
Liu, Y., see Dilger, J.P. (1063) 253
Livingstone, C., McLellan, A.R., McGregor, M.-A., Wilson, A., Connell, J.M.C., Small, M., Milligan, G., Paterson, K.R. and Houslay, M.D.
Altered G-protein expression and adenylate cyclase activity in platelets of non-insulin-dependent diabetic (NIDDM) male subjects (1096) 127

Livne, A.A., Aharonovitz, O., Fridman, H., Tsukitani, Y. and Markus, S.
Modulation of Na^+/H^+ exchange and intracellular pH by protein kinase C and protein phosphatase in blood platelets (1068) 161
Llorente, P., see Montero, C. (1084) 149
Lloyd, J.B., see Davies, D.E. (1084) 29
Lo, K.-M. and Gillies, S.D.
High level expression of human proteins in murine hybridoma cells: induction by methotrexate in the absence of gene amplification (1088) 217
Loach, P.A., see Van Mourik, F. (1059) 111
Lobato, M.-F., see Ayala, A. (1084) 48
Lobban, M.D., Irons, L.I. and Van Heyningen, S.
Binding of NAD^+ to pertussis toxin (1078) 155
Lockau, W., see Toelge, M. (1060) 233
Loeb, J.N., see Kuruvilla, A.K. (1094) 300
Loewy, A.G., see Harsfalvi, J. (1073) 268
Löffler, F., see Ruttkowski, E. (1087) 104
Logan, M., see Hooper, A.B. (1058) 13
Lohner, K., Balgavy, P., Hermetter, A., Paltauf, F. and Laggner, P.
Stabilization of non-bilayer structures by the etherlipid ethanolamine plasmalogen (1061) 132
Lomasney, J.W., Cotecchia, S., Lefkowitz, R.J. and Caron, M.G.
Molecular biology of α-adrenergic receptors: implications for receptor classification and for structure–function relationships (1095) 127
Lomax, M.I., see Smith, E.O. (1089) 266
Lommen, A., Pandya, K.I., Koningsberger, D.C. and Canters, G.W.
EXAFS analysis of the pH dependence of the blue-copper site in amicyanin from *Thiobacillus versutus* (1076) 439
Lomnitski, L., Bergman, M., Schön, I. and Grossman, S.
The effect of dietary vitamin E and β-carotene on oxidation processes in the rat testis (1082) 101
Lomonte, B., see Díaz, C. (1070) 455
Longrée, I., see Bettendorff, L. (1073) 69
Lonsdale, D.M., see Rogers, H.J. (1089) 411
Loomis, L.D., see Verma, J.N. (1066) 229
Lopaschuk, G.D., see Saddik, M. (1086) 217
Lopes-Cardozo, M., see Lageweg, W. (1085) 381
Lopes-Cardozo, M., see Van der Pal, R.H.M. (1081) 315
Lopes, C.M.B. and Louro, S.R.W.
The effects of *n*-alkanols on the lipid/protein interface of Ca^{2+}-ATPase of sarcoplasmic reticulum vesicles (1070) 467
López, A., see Palés, J. (1064) 169
López, F., see Camejo, G. (1096) 253
López, M.P., Gómez-Lechón, M.J. and Castell, J.V.
Glucose: a more powerful modulator of fructose 2,6-bisphosphate levels than insulin in human hepatocytes (1094) 200
López-Aparicio, P., see Pérez-Albarsanz, M.A. (1066) 124
López-Corcuera, B., see Alcántara, R. (1067) 64
López-Gómez, F., see Moreno-Sánchez, R. (1060) 284
Lopez-Marin, L.M., Quemard, A., Laneelle, G. and Lacave, C.
Ethylenic mycolic acid biosynthesis: extension of the biosynthetic model using cell-free extracts of *Mycobacterium aurum* and *Mycobacterium smegmatis* (1086) 22
López-Otín, C., see Monsalve, R.I. (1078) 265
López-Otín, C., see Nieto, A. (1096) 197
Lord, J.M., see Baxter, M.A. (1091) 158
Lord, J.M., see Legname, G. (1090) 119
Lorentzon, P., see Mattsson, J.P. (1065) 261
Lorenz, S., see Barciszewska, M.Z. (1087) 68
Lorenzetti, R., see Sosio, M. (1089) 401
Loria, P., see Tripodi, A. (1083) 298
Loriette, C., see Ribeiro, A. (1086) 279
Loskutoff, D.J., see Seiffert, D. (1078) 23
Loskutoff, D.J., see Slivka, S.R. (1094) 317
Lou, M.F., see Lamba, O.P. (1081) 181
Loucheux-Lefebvre, M.-H., see Fronza, G. (1087) 330
Louie, P., Nakayama, R. and Holten, D.
Solution hybridization quantitation of G6PD mRNA in rat epididymal fat pads (1087) 25
Louisot, P., see Vanier, M.T. (1096) 328
Louro, S.R.W., see Lopes, C.M.B. (1070) 467
Lovelace, E., see Horio, M. (1061) 106
Lovera, J., see Nakache, E. (1074) 413
Löw, H., see Morré, D.J. (1057) 140
Low, R.L., see Houmiel, K.L. (1079) 197
Lowe, A.G., Critchley, A.J. and Brass, A.
Inhibition of glucose transport in human erythrocytes by ubiquinone Q_0 (1069) 223
Lowe, J., see Mayer, R.J. (1089) 141
Lown, J.W., see Beerman, T.A. (1090) 52
Loyau, G., see Redini, F. (1093) 196
Lu, P., see Khoury, A.M. (1087) 55
Lu, P.-H., see Chen, C.-S. (1078) 411
Lu, P.-J., see Tsai, I.-H. (1080) 59
Lu, R.-B., see Lin, C.-H. (1093) 65
Lu, Z., see Turcotte, J.G. (1084) 1
Luciaková, K., see Van den Bogert, C. (1097) 87
Lucy, J.A., see Song, L. (1065) 54
Luderer, M.E.H., Hofer, F., Hagspiel, K., Allmaier, G., Blaas, D. and Kubicek, C.P.
A re-appraisal of multiplicity of endoglucanase I from *Trichoderma reesei* using monoclonal antibodies and plasma desorption mass spectrometry (1076) 427
Ludueña, R.F., see Khan, I.A. (1076) 289
Lueken, W., see Krüppel, T. (1062) 193
Luengo, J.M., see Rodríguez-Aparicio, L.B. (1073) 431
Luethy, J.D., see Gulino, A. (1087) 7
Lührmann, R., Kastner, B. and Bach, M.
Structure of spliceosomal snRNPs and their role in pre-mRNA splicing (1087) 265
Lührmann, R., see Bach, M. (1088) 139
Luk, G.D., see Lin, C.-H. (1093) 65
Luley, C., see Von Hodenberg, E. (1086) 173
Lüllau, E., see Legler, G. (1080) 89
Lumin, S., see Westlund, P. (1081) 301
Lund, J.S., see Christiansen, E.N. (1082) 57
Lund-Katz, S., see Ibdah, J.A. (1081) 220
Lundahl, P., Mascher, E., Andersson, L., Englund, A.-K., Greijer, E., Kameyama, K. and Takagi, T.
Active and monomeric human red cell glucose transporter after high performance molecular-sieve chromatography in the presence of octyl glucoside and phosphatidylserine or phosphatidylcholine (1067) 177
Lundahl, P., see Englund, A.-K. (1065) 185
Lupu, M., see Petcu, I. (1065) 99
Lüscher, M.E., see Juul, B. (1067) 201
Lütkemeier, P., see Deuticke, B. (1067) 111
Lux, I., see Aepfelbacher, M. (1074) 125
Luypaert, R., see De Bisschop, E. (1094) 147
Luzzatto, G., Kroll, M.H., Zavoico, G.B. and Schafer, A.I.
Regulation of the phosphoinositide cycle by Na^+/H^+ exchange and intracellular pH in human platelets (1084) 78
Lyle, I.G., see Francis, S.E. (1062) 117
Lynch, A.M., Trebilcock, R., Tomlinson, S. and Best, L.
Studies of the mechanism of activation of HIT-T15 cells by lactate (1091) 141
Lynch, G., see Sheppard, A. (1076) 156
Lynch, M., see Allen, M.T. (1075) 42
Lyu, R.-M., Reeves, J.P. and Smith, J.B.
Sodium-calcium exchange in membrane vesicles from aortic myocytes: Stimulation by endogenous proteolysis masks inactivation during vesicle preparation (1068) 97

M

Ma, C., see Hamlin, J.L. (1087) 107
Ma, L., see Hamilton, C.L. (1074) 312
Maatman, R.G.H.J., see Veerkamp, J.H. (1081) 1
Macadam, G.C., see Flannery, A.V. (1079) 119
MacColl, R., see Malak, H. (1059) 165
MacDonald, J.I.S. and Sprecher, H.
Phospholipid fatty acid remodeling in mammalian cells (1084) 105
Macdonald, J.M., see Fan, T.W.-M. (1092) 39
MacDonald, R.C., MacDonald, R.I., Menco, B.P.M., Takeshita, K., Subbarao, N.K. and Hu, L.-r.
Small-volume extrusion apparatus for preparation of large, unilamellar vesicles (1061) 297
MacDonald, R.C., see Subbarao, N.K. (1063) 147
MacDonald, R.I., see MacDonald, R.C. (1061) 297
MacDonald, R.I., see Subbarao, N.K. (1063) 147
MacEwan, D.J., Mitchell, R., Thomson, F.J. and Johnson, M.S.
Inhibition of depolarisation-induced calcium influx into GH_3 cells by arachidonic acid: the involvement of protein kinase C (1094) 346
Macey, R.I., see Gross, C.T. (1079) 153
MacGillivray, R.T.A., see Banfield, D.K. (1089) 262
Machado, A., see Ayala, A. (1084) 48
Machida, M., see Muraki, M. (1079) 229
Maciag, T., see Forough, R. (1090) 293
Macías, P., Pinto, M.C. and Gutiérrez-Merino, C.
Hemin and hemeprotein bleaching during linoleic acid oxidation by lipoxygenases (1082) 310
Mackay, I.R., see Moehario, L.H. (1097) 128
MacKerell Jr., A.D., Rigler, R., Hahn, U. and Saenger, W.
Thermodynamic analysis of the equilibrium, association and dissociation of 2′GMP and 3′GMP with ribonuclease T_1 at pH 5.3 (1073) 357
Mackie, A.R., see Hanley, A.B. (1074) 40
MacKintosh, C., see McNaughton, G.A.L. (1093) 189
Mackness, M.I., see Arrol, S. (1086) 72
Maclouf, J., see Antoine, C. (1075) 162
Maclouf, J., see Catalioto, R.-M. (1091) 364
MacNeil, G., see Pink, D.A. (1065) 167
Macrì, F., see Vianello, A. (1060) 299
Madeira, V.M.C., see Moreno, A.J.M. (1060) 166
Madigan, M.T., see Nozawa, T. (1060) 189
Maeda, H., see Maruo, K. (1074) 62
Maeda, N., see Izumida, Y. (1067) 221
Maeda, N., see Kenmochi, N. (1088) 445
Maeder, D.L. and Bohm, L.
The C-domain in the H1 histone is structurally conserved (1076) 233
Mäenpää, P.H., see Mahonen, A. (1088) 111
Maenz, D.D., Chenu, C., Bellemare, F. and Berteloot, A.
Improved stability of rabbit and rat intestinal brush border membrane vesicles using phospholipase inhibitors (1069) 250
Maeshima, M., see Ikeda, M. (1070) 77
Maezawa, S. and Yoshimura, T.
Sequence of critical events involved in fusion of phospholipid vesicles induced by clathrin (1070) 429
Maffrand, J.-P., see Herbert, J.-M. (1091) 432
Magagnin, S., see Andrietti, F. (1067) 103
Magalhães, A., see Sánchez, E.F. (1074) 347
Magee, A.I., see Gutierrez, L. (1078) 147
Mager, W.H., see Kraakman, L.S. (1090) 204
Maggi, F.M., see Bernini, F. (1083) 94
Magocsi, M. and Penniston, J.T.
Ca^{2+} or Mg^{2+} nucleotide phosphohydrolases in myometrium: two ecto-enzymes (1070) 163
Magocsi, M. and Penniston, J.T.
Oxytocin pretreatment of pregnant rat uterus inhibits Ca^{2+} uptake in plasma membrane and sarcoplasmic reticulum (1063) 7
Mahaney, J.E., Weis, C.P., Grisham, C.M. and Kutchai, H.
Antibodies against the 53 kDa glycoprotein inhibit the rotational dynamics of both the 53 kDa glycoprotein and the Ca^{2+}-ATPase in the sarcoplasmic reticulum membrane (1064) 55
Maher, F. and Harrison, L.C.
Stimulation of glucose transporter (GLUT1) mRNA and protein expression by inhibitors of glycosylation (1089) 27
Mahlberg, F.H., see Johnson, W.J. (1085) 273
Mahmood, A., see Eliakim, R. (1091) 1
Mahonen, A., Pirskanen, A. and Mäenpää, P.H.
Homologous and heterologous regulation of 1,25-dihydroxyvitamin D-3 receptor mRNA levels in human osteosarcoma cells (1088) 111
Mahoney, S.G., see Reynolds, R.A. (1074) 56
Mahuran, D.J.
The biochemistry of *HEXA* and *HEXB* gene mutations causing G_{M2} gangliosidosis (1096) 87
Maier, K., Hinze, H. and Holzer, H.
Inactivation of enzymes and an enzyme inhibitor by oxidative modification with chlorinated amines and metal-catalyzed oxidation systems (1079) 238
Majumdar, R., Guest, J.R. and Bridger, W.A.
Functional consequences of substitution of the active site (phospho)histidine residue of *Escherichia coli* succinyl-CoA synthetase (1076) 86
Majumder, G.C., see Rana, A.P.S. (1061) 185
Majumder, G.C., see Sarkar, M. (1070) 198
Mak, T.W., see Reis, M.D. (1072) 177
Makarov, A.A., Protasevich, I.I., Frank, E.G., Grishina, I.B., Bolotina, I.A. and Esipova, N.G.
The number of cooperative regions (energetic domains) in a pepsin molecule depends on the pH of the medium (1078) 283
Mäkelä, J., see Oikarinen, A. (1089) 40
Mäkelä, T., see Garreau, B. (1094) 339
Makishima, M., Honma, Y., Hozumi, M., Sampi, K., Hattori, M., Ishikawa, I., Ogura, H., Kawahara, N., Kanaiwa, T. and Motoyoshi, K.
Induction of differentiation of human myeloid leukemia HL-60 cells by novel pyrimidine nucleoside analogs (1094) 1
Malaisse, W.J., see Blachier, F. (1091) 151
Malaisse, W.J., see Blachier, F. (1092) 304
Malak, H. and MacColl, R.
A picosecond time-resolved fluorescence study on the biliprotein, phycocyanin 645 (1059) 165
Malanga, M., see Quesada, P. (1079) 79
Malavolti, M., Fromm, H., Ceryak, S. and Shehan, K.L.
Cerebral low-density lipoprotein (LDL) uptake is stimulated by acute bile drainage (1081) 106
Maldener, I., see Toelge, M. (1060) 233
Mali, W.P.T.M., see Van der Grond, J. (1074) 189
Maliepaard, M., see De Wolf, F.A. (1096) 67
Malkin, R., see Hobbs, J.D. (1059) 37
Malkin, S., see Braun, G. (1060) 303
Mallucci, L., see Chiariotti, L. (1089) 54
Mamo, J.C.L., Bowler, A., Elsegood, C.L. and Redgrave, T.G.
Defective plasma clearance of chylomicron-like lipid emulsions in Watanabe heritable hyperlipidemic rabbits (1081) 241
Man, N., Cartwright, A.J., Osborne, M. and Morris, G.E.
Structural changes in the C-terminal region of human brain creatine kinase studied with monoclonal antibodies (1076) 245
Man, R.Y.K., see Mock, T. (1084) 167

Man, S.F.P., see Stockbridge, L.L. (1064) 212
Mandelbaum, F.R., see Sánchez, E.F. (1074) 347
Mandl, J., see Kalapos, M.P. (1092) 284
Mangeney, M., see Ribeiro, A. (1086) 279
Mann, D.F., see Van Winkle, L.J. (1068) 231
Mann, G.E., see Sastre, J. (1065) 213
Mann, G.E., see Sweiry, J.H. (1070) 135
Mannaerts, G.P., see Van Veldhoven, P.P. (1073) 203
Mannherz, H.G., see Flocke, K. (1076) 273
Mannino, R.J., see Reston, J.T. (1088) 270
Mansbach, II, C.M., see Knox, R. (1083) 65
Manso, C.F., see Mira, M.L. (1060) 257
Månsson, J.-E., see Gottfries, J. (1081) 253
Månsson, J.-E., see Percy, P. (1084) 173
Månsson, J.-E., see Norberg, P. (1066) 257
Mansuy, D., see Cucurou, C. (1081) 99
Mäntele, W., Sawatzki, J., Doi, M., Gad'on, N. and Drews, G.
Bacteriochlorophyll–protein interaction in the light-harvesting complex B800-850 from *Rhodobacter sulfidophilus*: A Fourier-transform Raman spectroscopic investigation (1057) 367
Mäntele, W., see Barth, A. (1057) 115
Mäntele, W., see Jürgens, U.J. (1067) 208
Mantsch, H.H., see Hübner, W. (1066) 166
Mantsch, H.H., see Jackson, M. (1078) 231
Mar, T. and Gingras, G.
Evidence for the photoreductive trapping of doubly reduced bacteriopheophytin in the photoreaction center of *Ectothiorhodospira* sp. (1056) 190
Maras, B., see Barra, D. (1076) 143
Marc-Martin, S., see Bonny, C. (1089) 213
Marchiori, F., see Brunati, A.M. (1091) 123
Marchiori, F., see Leader, D.P. (1091) 426
Marchis-Mouren, G., see Desseaux, V. (1080) 237
Marden, M., see Leclerc, L. (1062) 35
Marden, M., see Wajcman, H. (1096) 60
Maren, T.H., see Brechue, W.F. (1066) 201
Margolis, L.B., see Gass, G.V. (1093) 162
Margolis, L.B., see Popov, S.V. (1066) 151
Margonato, V., see Zecca, L. (1075) 1
Marín, J.J.G., Tabernero Urbieta, A., Pérez Barriocanal, F., Rodríguez Barbero, E. and Eleno, N.
Plasma membrane-bound carbonic anhydrase activity in the regenerating rat liver (1061) 9
Marinello, E., see Pagani, R. (1077) 233
Marino, G., see Birolo, L. (1080) 198
Marjanovic, S., Eriksson, I. and Nelson, B.D.
Expression of a new set of glycolytic isozymes in activated human peripheral lymphocytes (1087) 1
Markowitz, D., see Cortas, N. (1070) 223
Markowska, E., see Subczynski, W.K. (1068) 68
Markus, G., see Harvey, S.R. (1078) 360
Markus, S., see Livne, A.A. (1068) 161
Marnett, L.J., see Smith, W.L. (1083) 1
Maroder, M., see Gulino, A. (1087) 7
Marotti, K.R., see Pape, M.E. (1086) 326
Maroudas, A., Wachtel, E., Grushko, G., Katz, E.P. and Weinberg, P.
The effect of osmotic and mechanical pressures on water partitioning in articular cartilage (1073) 285
Marques-Vidal, P., Azéma, C., Collet, X., Chap, H. and Perret, B.P.
Hepatic lipase-mediated hydrolysis versus liver uptake of HDL phospholipids and triacylglycerols by the perfused rat liver (1082) 185
Marres, C.A.M. and De Vries, S.
Reduction of the Q-pool by duroquinol via the two quinone-binding sites of the QH_2:cytochrome *c* oxidoreductase. A model for the equilibrium between cytochrome *b*-562 and the Q-pool (1057) 51
Marsh, D.
Analysis of the chainlength dependence of lipid phase transition temperatures: main and pretransitions of phosphatidylcholines; main and non-lamellar transitions of phosphatidylethanolamines (1062) 1
Marsh, D., see Khramtsov, V.V. (1068) 257
Marsh, D., see Reboiras, M.D. (1063) 259
Marsy, S., see El Mernissi, G. (1064) 205
Martegani, E., see Forlani, N. (1089) 47
Martegani, E., see Frascotti, G. (1089) 206
Martenson, C.H., see Uhing, R.J. (1093) 115
Martial, S., Ripoche, P. and Ibarra, C.
Functional expression of urea channels in amphibian oocytes injected with frog urinary bladder mRNA (1090) 86
Martin, D.M., Chasteen, N.D. and Grady, J.K.
Fluorescence and kinetic properties of Ru(III) $(NH_3)_5$ modified transferrin (1076) 252
Martín, F., Gualberto, A., Sobrino, F. and Pintado, E.
Thimerosal induces calcium mobilization, fructose 2,6-bisphosphate synthesis and cytoplasmic alkalinization in rat thymus lymphocytes (1091) 110
Martin, F., see Allen, T.M. (1066) 29
Martin, F.J., see Lasic, D.D. (1070) 187
Martin, I., see Beauregard, M. (1060) 271
Martin, J.E., see Becker, M. (1057) 299
Martin, S.R., Schilstra, M.J. and Bayley, P.M.
Opposite-end behaviour of dynamic microtubules (1073) 555
Martinat, N., Huet, J.-C., Nespoulous, C., Combarnous, Y. and Pernollet, J.-C.
Determination of the primary and secondary structures of the dromedary (*Camelus dromedarius*) prolactin and comparison with prolactins from other species (1077) 339
Martinez, J., see Tani, T. (1095) 249
Martínez, J.A., Del Barrio, A.S. and Larralde, J.
Evidence of a short-term effect of growth hormone on in vivo bone protein synthesis in normal rats (1093) 111
Martinez, M.J., Ruiz, J.I., Lacort, M. and Ochoa, B.
Diurnal variations of rat liver enzymes catalyzing cholesterol ester hydrolysis (1085) 106
Martínez del Pozo, A., see Gasset, M. (1068) 9
Martínez-Blanco, H., see Rodríguez-Aparicio, L.B. (1073) 431
Martinho, F., see Mira, M.L. (1060) 257
Martiniuk, F., see Newgard, C.B. (1090) 333
Martinoia, E., Vogt, E., Rentsch, D. and Amrhein, N.
Functional reconstitution of the malate carrier of barley mesophyll vacuoles in liposomes (1062) 271
Martins, I.J., Hopkins, L., Joll, C.A. and Redgrave, T.G.
Interactions between model triacylglycerol-rich lipoproteins and high-density lipoproteins in rat, rabbit and man (1081) 328
Martinuzzi, A., Vergani, L., Rosa, M. and Angelini, C.
L-Carnitine uptake in differentiating human cultured muscle (1095) 217
Martonosi, A., see Buchet, R. (1068) 201
Martonosi, A., see Buchet, R. (1069) 209
Martonosi, A., see Jona, I. (1070) 355
Martonosi, A., see Molnar, E. (1068) 17
Martonosi, A., see Molnar, E. (1068) 27
Martonosi, A., see Varga, S. (1070) 374
Marunaka, Y., Ohara, A., Matsumoto, P. and Eaton, D.C.
Cyclic GMP-activated channel activity in renal epithelial cells (A6) (1070) 152
Maruo, J., see Fujii, Y. (1063) 90
Maruo, K., Akaike, T., Matsumura, Y., Kohmoto, S., Inada, Y., Ono, T., Arao, T. and Maeda, H.

Triggering of the vascular permeability reaction by activation of the Hageman factor-prekallikrein system by house dust mite proteinase (1074) 62
Maruyama, K., Mori, A., Bhadra, S., Subbiah, M.T.R. and Huang, L. Proteins and peptides bound to long-circulating liposomes (1070) 246
Maruyama, K., see Klibanov, A.L. (1062) 142
Marynen, P., see Devriendt, K. (1088) 95
Marz, R., see Kraupp, M. (1070) 157
Marzuki, S., see Collins, S. (1097) 309
Marzuki, S., see Moehario, L.H. (1097) 128
Mas, A. and Sarkar, B.
Binding, uptake and efflux of ^{65}Zn by isolated human trophoblast cells (1092) 35
Mascher, E., see Lundahl, P. (1067) 177
Masibay, A.S., Damewood, G.P., Boeggeman, E. and Qasba, P.K.
Expression of β-1,4-galactosyltransferase gene during 3T3 cell growth (1090) 230
Maskiewicz, R., see Senior, J.H. (1070) 173
Massari, S., Folena, E., Ambrosin, V., Schiavo, G. and Colonna, R. pH-dependent lipid packing, membrane permeability and fusion in phosphatidylcholine vesicles (1067) 131
Masson, A., see Capeillere-Blandin, C. (1094) 55
Masson, L., see Schwartz, J.-L. (1065) 250
Masters, C.J., see Klucis, E. (1074) 294
Mastrocola, T., De Luca, M. and Rugolo, M.
Characterization of chloride transport pathways in cultured human keratinocytes (1097) 275
Mastrocola, T., Flamigni, A. and Rugolo, M.
Hypotonic shock activated Cl^- and K^+ pathways in human fibroblasts (1069) 201
Masuda, M., Kudo, I., Naito, M., Mizushima, H. and Inoue, K.
Phospholipid composition of rat megakaryocytes and its rearrangement in platelets (1083) 235
Masuda, Y., Oikawa, K., Imaizumi, N., Kato, A. and Murano, T.
Heme peptide as a model substance for halogenomethane activation and heme modification (1075) 131
Masumoto, H., see Tamura, N. (1060) 51
Masutani, H., see Yang, W.-J. (1075) 75
Masuya, T., see Ikehara, T. (1068) 87
Mata, A.M., see Burgess, A.J. (1064) 139
Mata, A.M., see Tunwell, R.E.A. (1073) 585
Mathis, P., see Sebban, P. (1057) 109
Mathur, M., Saluja, D. and Sachar, R.C.
Post-transcriptional regulation of *S*-adenosylmethionine synthetase from its stored mRNA in germinated wheat embryos (1078) 161
Matinyan, N.S., see Melikyan, G.B. (1068) 245
Matsoukas, J.M., see Bovy, P.R. (1079) 23
Matsoukas, J.M., see Turner, R.J. (1065) 21
Matsubara, T., see Hayashi, A. (1083) 179
Matsuda, S., Suzuki, H., Yoshimoto, T., Yamamoto, S. and Miyatake, A.
Analysis of non-heme iron in arachidonate 12-lipoxygenase of porcine leukocytes (1084) 202
Matsuda, Y., see Yang, W.-J. (1075) 75
Matsuda, Y., see Yang, W.-J. (1075) 83
Matsuguchi, T., see Ikejiri, K. (1089) 77
Matsui, I., Ishikawa, K., Miyairi, S., Fukui, S. and Honda, K.
An increase in the transglycosylation activity of *Saccharomycopsis* α-amylase altered by site-directed mutagenesis (1077) 416
Matsui, K., see Ohyashiki, T. (1067) 159
Matsumoto, H., see Ito, R. (1096) 245
Matsumoto, K., Azuma, Y., Kiyoki, M., Okumura, H., Hashimoto, K. and Yoshikawa, K.
Involvement of endogenously produced 1,25-dihydroxyvitamin D-3 in the growth and differentiation of human keratinocytes (1092) 311
Matsumoto, P., see Marunaka, Y. (1070) 152
Matsumoto, T., see Tsuge, H. (1078) 77
Matsumura, Y., see Maruo, K. (1074) 62
Matsuoka, M., see Garibay, J.L.R. (1094) 193
Matsuoka, T., see Serizawa, N. (1084) 35
Matsura, T., Yamada, K. and Kawasaki, T.
Changes in the content and intracellular distribution of coenzyme Q homologs in rabbit liver during growth (1083) 277
Matsuura, J.E., see Bonomo, E.A. (1082) 265
Matsuyama, S.-i., see Nishiyama, K.-i. (1065) 89
Matsuzaki, K., Fukui, M., Fujii, N. and Miyajima, K.
Interactions of an antimicrobial peptide, tachyplesin I, with lipid membranes (1070) 259
Matsuzaki, K., Harada, M., Funakoshi, S., Fujii, N. and Miyajima, K.
Physicochemical determinants for the interactions of magainins 1 and 2 with acidic lipid bilayers (1063) 162
Matsuzaki, K., Shioyama, T., Okamura, E., Umemura, J., Takenaka, T., Takaishi, Y., Fujita, T. and Miyajima, K.
A comparative study on interactions of α-aminoisobutyric acid containing antibiotic peptides, trichopolyn I and hypelcin A with phosphatidylcholine bilayers (1070) 419
Matthews, I., see Burgess, A.J. (1064) 139
Mattiasson, B., see Bartonek-Roxå, E. (1088) 245
Mattsson, J.P., Väänänen, K., Wallmark, B. and Lorentzon, P.
Omeprazole and bafilomycin, two proton pump inhibitors: differentiation of their effects on gastric, kidney and bone H^+-translocating ATPases (1065) 261
Matuda, S., Nakano, K., Ohta, S., Saheki, T., Kawanishi, Y.-i. and Miyata, T.
The α-ketoacid dehydrogenase complexes. Sequence similarity of rat pyruvate dehydrogenase with *Escherichia coli* and *Azotobacter vinelandii* α-ketoglutarate dehydrogenase (1089) 1
Matuoka, S., see Takahashi, H. (1069) 229
Maturana, J., see Suárez, G. (1075) 12
Maulik, P.R., Sripada, P.K. and Shipley, G.G.
Structure and thermotropic properties of hydrated *N*-stearoyl sphingomyelin bilayer membranes (1062) 211
Maume, B.F., see Hammami, M. (1094) 153
Maume, G., see Hammami, M. (1094) 153
Maurer-Fogy, I., see Adolf, G.R. (1089) 167
Maurer-Fogy, I., see Hiebl-Dirschmied, C.M. (1090) 123
Mauri, F., Omnaas, J., Davidson, L., Whitfill, C. and Kitto, G.B.
Amino acid sequence of a globin from the sea cucumber *Caudina (Molpadia) arenicola* (1078) 63
Maury, C.P.J.
Isolation and characterization of cardiac amyloid in familial amyloid polyneuropathy type IV (Finnish): relation of the amyloid protein to variant gelsolin (1096) 84
Mauviel, A., see Redini, F. (1093) 196
Mauzerall, D., see Greenbaum, N.L. (1057) 195
Maxwell, B.L., see Chang, D.C. (1092) 153
Maxwell, E.S., see Sarge, K.D. (1088) 57
May, J.M.
The one-site model of human erythrocyte glucose transport: testing its predictions using network thermodynamic computer simulations (1064) 1
Maya, M., see Savu, L. (1097) 19
Mayer, E., see Astl, G. (1080) 155
Mayer, R.J., Arnold, J., László, L., Landon, M. and Lowe, J.
Ubiquitin in health and disease (1089) 141
Mayes, S.R., Cook, K.M., Self, S.J., Zhang, Z. and Barber, J.
Deletion of the gene encoding the Photosystem II 33 kDa protein from *Synechocystis* sp. PCC 6803 does not inactivate water-splitting but increases vulnerability to photoinhibition (1060) 1

Mazaleyrat, J.-P., see Vilain, A.-C. (1076) 401
Mazière, J.-C., see Morlière, P. (1084) 261
Mazière, J.C., see Salmon, S. (1086) 1
Mbikay, M., see Nolet, S. (1089) 247
McAnulty, R.J., Campa, J.S., Cambrey, A.D. and Laurent, G.J.
The effect of transforming growth factor β on rates of procollagen synthesis and degradation in vitro (1091) 231
McAuley, A.J., see Assadullahi, T.P. (1083) 271
McBurney, M.W., see Colledge, W.H. (1087) 39
McCabe, N.R. and Dawson, G.
A study of the heterogenous structure of guinea pig lysosomal β-mannosidase using a polyclonal antibody (1077) 133
McCarthy, S.A., see Jursinic, P.A. (1059) 312
McConchie, S.M., Coakley, J., Edwards, R.H.T. and Beynon, R.J.
Molecular heterogeneity in McArdle's disease (1096) 26
McConnell, J.F., see James, V.J. (1078) 19
McCormack, F.X., Fisher, J.H., Suwabe, A., Smith, D.L., Shannon, J.M. and Voelker, D.R.
Expression and characterization of rat surfactant protein A synthesized in Chinese hamster ovary cells (1087) 190
McCormick, F., see Haubruck, H. (1072) 215
McCoy, J.P., see Vlock, D.R. (1080) 1
McCullough, M.L., see DeMartino, G.N. (1073) 299
McCullough, M.L., see DeMartino, G.N. (1079) 29
McDaniel, H.G., see Jenkins, R.L. (1077) 379
McDonald, J.R., Ko, C., Mismer, D., Smith, D.J. and Collins, F.
Expression and characterization of recombinant human ciliary neurotrophic factor from *Escherichia coli* (1090) 70
McDonald, P., see Da Cruz e Silva, E.F. (1089) 269
McFadyen, W.D., see Wickham, G. (1073) 528
McGraw, P., see Gaynor, P.M. (1090) 326
McGregor, M.-A., see Livingstone, C. (1096) 127
McGregor, S.J., Naves, M.L., Birly, A.K., Russell, N.H., Halls, D., Junor, B.J.R. and Brock, J.H.
Interaction of aluminium and gallium with human lymphocytes: the role of transferrin (1095) 196
McGuire, M.J., see DeMartino, G.N. (1073) 299
McHale, A.P., see Irhuma, A. (1074) 1
McHugh, T., see Dicker, E. (1073) 316
McIntosh, A.R. and Boucher, F.
On the action spectrum of the photoelectric transients of bacteriorhodopsin in solid-state films (1056) 149
McIntosh, T.J., see Simon, S.A. (1064) 69
McKenna, C.E., Gutheil, W.G. and Song, W.
A method for preparing analytically pure sodium dithionite. Dithionite quality and observed nitrogenase-specific activities (1075) 109
McKenzie, S.J.
Diagnostic utility of oncogenes and their products in human cancer (1072) 193
McLaughlin, B., Cawston, T. and Weiss, J.B.
Activation of the matrix metalloproteinase inhibitor complex by a low molecular weight angiogenic factor (1073) 295
McLean, L.R., Hagaman, K.A., Owen, T.J., Payne, M.H., Davidson, W.S. and Krstenansky, J.L.
Examination of the peptide sequence requirements for lipid-binding. Alternative pathways for promoting the interaction of amphipathic α-helical peptides with phosphatidylcholine (1086) 106
McLean, L.R., see Diccianni, M.B. (1082) 85
McLean, M.A., see Wedler, F.C. (1076) 161
McLellan, A.R., see Livingstone, C. (1096) 127
McMahon, H.T. and Nicholls, D.G.
The bioenergetics of neurotransmitter release (1059) 243
McNabb, C.K., see Sanghera, J.S. (1095) 153
McNamara, D.J., see Yount, N.Y. (1082) 79
McNamara, D.J., see Yount, N.Y. (1085) 82
McNamara, P.D., see Reynolds, R.A. (1074) 56
McNaughton, G.A.L., MacKintosh, C., Fewson, C.A., Wilkins, M.B. and Nimmo, H.G.
Illumination increases the phosphorylation state of maize leaf phospho*enol*pyruvate carboxylase by causing an increase in the activity of a protein kinase (1093) 189
McPartlin, A.E., Barker, H.M. and Cohen, P.T.W.
Identification of a third alternatively spliced cDNA encoding the catalytic subunit of protein phosphatase 2Bβ (1088) 308
McQuaid, K., see Rothman, S. (1074) 85
McTavish, H., see Hooper, A.B. (1058) 13
Mealy, T., see Oshry, L. (1066) 239
Meddings, J.B., Hogaboam, C.M., Tran, K., Reynolds, J.D. and Wallace, J.L.
Capsaicin effects on non-neuronal plasma membranes (1070) 43
Meddings, J.B., see Cooper, P. (1069) 151
Medina, J.F., see Wetterholm, A. (1080) 96
Medow, M.S., see Gerritsen, M.E. (1065) 63
Medvedkin, V.N., see Permyakov, E.A. (1076) 67
Meers, P., see Oshry, L. (1066) 239
Meese, C.O., see Uedelhoven, W.M. (1081) 197
Mehari, T., Parrett, K.G., Warren, P.V. and Golbeck, J.H.
Reconstitution of the iron-sulfur clusters in the isolated F_A/F_B protein: EPR spectral characterization of same-species and cross-species Photosystem I complexes (1056) 139
Mehta, N.G., see Pestonjamasp, K.N. (1073) 341
Melchior, G.W., see Pape, M.E. (1086) 326
Meldrum, E., Parker, P.J. and Carozzi, A.
(1092) 49
Melikyan, G.B., Matinyan, N.S., Kocharov, S.L., Arakelian, V.B., Prangishvili, D.A. and Nadareishvili, K.G.
Electromechanical stability of planar lipid membranes from bipolar lipids of the thermoacidophilic archebacterium *Sulfolobus acidocaldarius* (1068) 245
Melin, T., Qi, C., Bengtsson-Olivecrona, G., Åkesson, B. and Nilsson, Å.
Hydrolysis of chylomicron polyenoic fatty acid esters with lipoprotein lipase and hepatic lipase (1075) 259
Melis, A., see Neale, P.J. (1056) 195
Melkonyan, V.Z., see Nersissian, A.M. (1076) 337
Melloni, E., see Salamino, F. (1096) 265
Melnykovych, G., see Bulva, C.J. (1094) 134
Meloni, M.L., see Bellotti, V. (1097) 177
Ménard, L., see Desmarais, Y. (1078) 179
Ménard, P., see Gingras, D. (1066) 261
Menco, B.P.M., see MacDonald, R.C. (1061) 297
Mendel-Hartvig, J. and Capaldi, R.A.
Structure–function relationships of domains of the δ subunit in *Escherichia coli* adenosine triphosphatase (1060) 115
Mendlein, J., see Hediger, M.A. (1064) 360
Mendoza-Figueroa, T., see De La Vega, F.M. (1081) 293
Menegazzi, M., see Berton, G. (1091) 101
Menegazzi, M., see Cesarone, C.F. (1087) 241
Ménez, A., see Bouchier, C. (1088) 401
Menichini, P., see Fronza, G. (1087) 330
Menschikov, G.B., see Fuki, I.V. (1086) 237
Menschikowski, M., see Fuki, I.V. (1086) 237
Men'shikova, E.V., see Ritov, V.B. (1067) 187
Mercer, J.F.B., Stevenson, T., Wake, S.A., Mitropoulos, G., Camakaris, J. and Danks, D.M.
Developmental variation in copper, zinc and metallothionein mRNA in brindled mutant and nutritionally copper deficient mice (1097) 205
Merkulova, T.I., see Plisov, S.Y. (1095) 114
Merkulova, T.I., see Seledtsov, I.A. (1089) 367
Merlini, G., see Bellotti, V. (1097) 177

Merot, J., Poncet, V., Bidet, M., Tauc, M. and Poujeol, P.
Apical membrane ionic channels in the rabbit cortical thick ascending limb in primary culture (1070) 387
Mertens, W., see Szewczyk, A. (1073) 209
Messer, M. and Nicholas, K.R.
Biosynthesis of marsupial milk oligosaccharides: characterization and developmental changes of two galactosyltransferases in lactating mammary glands of the tammar wallaby, *Macropus eugenii* (1077) 79
Metlička, R., Nešpůrková, L., Pilař, J., Ryba, O. and Rybová, R.
The plasmalemma redox system of a fresh-water alga and membrane electrical parameters (1069) 175
Metsäranta, M., Toman, D., De Crombrugghe, B. and Vuorio, E.
Specific hybridization probes for mouse type I, II, III and IX collagen mRNAs (1089) 241
Metso, J., see Ehnholm, C. (1086) 255
Metz-Boutigue, M.H., see Awade, A. (1077) 241
Meunier, S., see Hammami, M. (1094) 153
Meyer, A.L., Petrovskis, E.A., Duffus, W.P.H., Thomsen, D.R. and Post, L.E.
Cloning and sequence of an infectious bovine rhinotracheitis virus (BHV-1) gene homologous to glycoprotein H of herpes simplex virus (1090) 267
Meyer, H.E., see Donella-Deana, A. (1094) 130
Meyer, H.E., see Yannoukakos, D. (1066) 70
Meyer, R.R., see Bobst, E.V. (1078) 199
Meyer, T.E.
Evolution of cytochromes and photosynthesis (1058) 31
Meyer, T.E., see Motie, M. (1076) 97
Meyerhans, A., see Morelle, G. (1089) 320
Meyers, D.M. and Ahmad, S.
Link between L-3-cyanoalanine synthase activity and differential cyanide sensitivity of insects (1075) 195
Meyerstein, D., see Sauer, A. (1063) 203
Meyerstein, N., see Sauer, A. (1063) 203
Meyuhas, D., see Rotenberg, M. (1086) 265
Mezzasoma, I., see Minelli, A. (1080) 252
Miccheli, A., Ricciolini, R., Lagana, A., Piccolella, E. and Conti, F.
Modulation of the free sphingosine levels in Epstein Barr virus transformed human B lymphocytes by phorbol dibutyrate (1095) 90
Miccheli, A., Ricciolini, R., Piccolella, E., Delfini, M. and Conti, F.
Modulation of human lymphoblastoid B cell line by phorbol ester and sphingosine. A ^{31}P-NMR study (1093) 29
Michalak, M., see Milner, R.E. (1063) 120
Michel-Beyerle, M.E., see Bixon, M. (1056) 301
Michel, H., see Grisshammer, R. (1088) 183
Michel, H., see Söhlemann, P. (1089) 103
Michell, R.H., see Baxter, M.A. (1091) 158
Middendorf, D., see Becker, M. (1057) 299
Middleton, P.G., Williamson, I.K., Taylor, J.J., Rowe, D. and Guy, K.
Burkitt lymphoma cell lines are prone to recombination in the switch region of the Igμ heavy chain locus (1090) 109
Miernyk, J.A., see Shatters, Jr., R.G. (1068) 179
Miggiano, V., see Bertocci, B. (1080) 103
Miglino, M., see Canepa, L. (1074) 101
Mikhailenko, I.A., Dubrovskaya, S.A., Korepanova, O.B., Timofeeva, N.G., Morozkin, A.D., Prokazova, N.V. and Bergelson, L.D.
Interaction of low-density lipoproteins with gangliosides (1085) 299
Mikkelsen, A., see Elgsaeter, A. (1071) 273
Mikkelsen, J.M., see Højrup, P. (1077) 220
Miller, A.-F. and Brudvig, G.W.
A guide to electron paramagnetic resonance spectroscopy of Photosystem II membranes (1056) 1
Miller, C., see Chow, W.S. (1057) 69
Miller, D.M.
Determination of the thickness of the unstirred layers in the moving-drop method for measuring aqueous-nonaqueous interfacial transport rates (1065) 69
Miller, D.M.
Evidence that interfacial transport is rate-limiting during passive cell membrane permeation (1065) 75
Miller, J.L., see Pincus, M.R. (1097) 133
Miller, L.G., see Ruff, L.J. (1073) 543
Miller, M., Cox, R.P. and Gillbro, T.
Energy transfer kinetics in chlorosomes from *Chloroflexus aurantiacus*: studies using picosecond absorbance spectroscopy (1057) 187
Miller, N.E., see Nanjee, M.N. (1086) 241
Milligan, G., see Livingstone, C. (1096) 127
Mills, C.O., see Garner, C.M. (1091) 41
Milner, R.E., Michalak, M. and Wang, L.C.H.
Altered properties of calsequestrin and the ryanodine receptor in the cardiac sarcoplasmic reticulum of hibernating mammals (1063) 120
Milner, T.G., Ko, K.W.S., Ohnishi, T. and Yokoyama, S.
Enhancement of the human plasma lipid transfer protein reaction by apolipoproteins (1082) 71
Mimouni, V., Christiansen, E.N., Blond, J.P., Ulmann, L., Poisson, J.-P. and Bezard, J.
Elongation and desaturation of arachidonic and eicosapentaenoic acids in rat liver. Effect of clofibrate feeding (1086) 349
Mimuro, M., see Post, A.F. (1060) 67
Minagawa, N., see Sakajo, S. (1090) 102
Minakami, S., see Aoyagi, K. (1093) 223
Minakami, S., see Kwak, J.Y. (1076) 369
Mindroiu, T., Carretero, O.A., Walz, D. and Scicli, A.G.
Tissue kallikrein processes small proenkephalin peptides (1076) 9
Minelli, A., Moroni, M., Fabiani, R., Miscetti, P. and Mezzasoma, I.
Purification and partial characterization of the soluble low K_m 5′-nucleotidase from human seminal plasma (1080) 252
Minetti, M. and Scorza, G.
Hypoxia-stimulated reduction of doxyl stearic acids in human red blood cells. Role of hemoglobin (1074) 112
Mino, M., see Sakamoto, W. (1074) 251
Minoura, H., see Tanaka, M. (1088) 385
Minoura, Y., see Tada, M. (1090) 29
Mira, M.L., Martinho, F., Azevedo, M.S. and Manso, C.F.
Oxidative inhibition of red blood cell ATPases by glyceraldehyde (1060) 257
Miscetti, P., see Minelli, A. (1080) 252
Mismer, D., see McDonald, J.R. (1090) 70
Misra, A.N., Hall, S.G. and Barber, J.
The isolated D1/D2/cyt *b*-559 reaction centre complex of Photosystem II possesses a serine-type endopeptidase activity (1059) 239
Misra, M., Taylor, D., Oliver, T. and Taylor, K.
Effect of organic anions on the crystallization of the Ca^{2+}-ATPase of muscle sarcoplasmic reticulum (1077) 107
Misra, S., see Rana, A.P.S. (1061) 185
Mistry, M.J., see Diccianni, M.B. (1082) 85
Misuraca, G., see Palumbo, A. (1073) 85
Mitani, Y., see Okabe, Y. (1059) 332
Mitchell, A., see Warren, R.J. (1086) 354
Mitchell, R., see MacEwan, D.J. (1094) 346
Mitin, Y.V., see Permyakov, E.A. (1076) 67
Mitra, S., see Modi, S. (1080) 45
Mitropoulos, G., see Mercer, J.F.B. (1097) 205
Mitsui, Y., see Amanuma, K. (1092) 336
Mitsui, Y., see Saida, K. (1089) 404

Mitsumoto, Y. and Mohri, T.
Reconstitution of the L-leucine-H^+ cotransporter of the plasma membrane from Chang liver cells into proteoliposomes (1061) 171
Mitsunaga, J.-i., see Ueda, H. (1080) 126
Miura, K.-i., see Hirao, I. (1087) 199
Miura, K.-i., see Kumazawa, Y. (1090) 167
Miura, M., see Kobayashi, M. (1090) 238
Miyachi, T., see Habuchi, O. (1093) 153
Miyairi, S., see Matsui, I. (1077) 416
Miyajima, K., see Matsuzaki, K. (1063) 162
Miyajima, K., see Matsuzaki, K. (1070) 259
Miyajima, K., see Matsuzaki, K. (1070) 419
Miyamoto, H., see Ikehara, T. (1068) 87
Miyamura, K., see Ogasawara, Y. (1083) 252
Miyamura, K., see Shimizu, H. (1081) 53
Miyano, M., see Tsuge, H. (1078) 77
Miyao, M. and Inoue, Y.
An improved procedure for photoactivation of photosynthetic oxygen evolution: Effect of artificial electron acceptors on the photoactivation yield of NH_2OH-treated wheat Photosystem II membranes (1056) 47
Miyata, T., see Matuda, S. (1089) 1
Miyatake, A., see Matsuda, S. (1084) 202
Miyauchi, Y., see Koshi, S. (1075) 231
Miyazaki, A., Rahim, A.T.M.A., Araki, S., Morino, Y. and Horiuchi, S.
Chemical cross-linking alters high-density lipoprotein to be recognized by a scavenger receptor in rat peritoneal macrophages (1082) 143
Miyazaki, A., see Rahim, A.T.M.A. (1082) 195
Miyazaki, K., see Iseki, K. (1068) 105
Miyazaki, S., see Hamasaki, Y. (1082) 126
Miyoshi, H., see Guo, Z.-j. (1056) 89
Miyoshi, H., see Guo, Z.-j. (1059) 91
Miyoshi, H., see Tokutake, N. (1057) 377
Miyoshi, M., see Tsukamoto, I. (1079) 348
Mizumoto, K., see Kumazawa, Y. (1090) 167
Mizuno, M., Kameyama, Y. and Yokota, Y.
Ca^{2+}-independent phospholipase A_2 activity associated with secretory granular membranes in rat parotid gland (1084) 21
Mizushima, H., see Masuda, M. (1083) 235
Mizushima, S., see Nishiyama, K.-i. (1065) 89
Mizushima, Y., see Okada, M. (1073) 514
Mizutani, M., see Nishimura, C. (1078) 171
Mochan, E., see Uhl, J. (1097) 283
Mock, T. and Man, R.Y.K.
The catabolism of exogenous lysophosphatidylcholine in isolated perfused rat and guinea pig hearts: a comparative study (1084) 167
Modena, D., see Legname, G. (1090) 119
Modi, S., Behere, D.V. and Mitra, S.
Horseradish peroxidase catalyzed oxidation of thiocyanate by hydrogen peroxide: comparison with lactoperoxidase-catalysed oxidation and role of distal histidine (1080) 45
Moehario, L.H., Wang, L., Devenish, R.J., Mackay, I.R. and Marzuki, S.
The human pyruvate dehydrogenase complex: a polymorphic region of the lipoate acetyl transferase (E2) subunit gene (1097) 128
Mohanty, P., see Shubin, V.V. (1060) 28
Mohr, C., see Habermann, B. (1077) 253
Mohri, T., see Mitsumoto, Y. (1061) 171
Moir, A.J.G., see Lilley, K.S. (1080) 191
Mokuno, H., Yamada, N., Shimano, H., Ishibashi, S., Mori, N., Takahashi, K., Oka, T., Yoon, T.H. and Takaku, F.
The enhanced cellular uptake of very-low-density lipoprotein enriched in apolipoprotein E (1082) 63
Molière, P., see Chabannes, B. (1093) 47
Molière, P., see Sarda, N. (1081) 75
Molist, A., see Romarís, M. (1093) 229
Moll, G.N., Van den Eertwegh, V., Tournois, H., Roelofsen, B., Op den Kamp, J.A.F. and Van Deenen, L.L.M.
Growth inhibition of *Plasmodium falciparum* in in vitro cultures by selective action of tryptophan-*N*-formylated gramicidin incorporated in lipid vesicles (1062) 206
Moll, G.N., see Simões, A.P. (1063) 45
Molle, G., Duclohier, H., Julien, S. and Spach, G.
Synthetic analogues of alamethicin: effect of C-terminal residue substitutions and chain length on the ion channel lifetimes (1064) 365
Mollenhauer, J., see Reinke, M. (1081) 274
Möller, U., see Huth, W. (1077) 1
Mollinedo, F., see Fonteriz, R.I. (1093) 1
Molnar, E., Varga, S., Jona, I. and Martonosi, A.
Covalent labeling of the cytoplasmic or luminal domains of the sarcoplasmic reticulum Ca^{2+}-ATPase with fluorescent azido dyes (1068) 27
Molnar, E., Varga, S. and Martonosi, A.
Differences in the susceptibility of various cation transport ATPases to vanadate-catalyzed photocleavage (1068) 17
Molnar, E., see Buchet, R. (1068) 201
Moncada, S., see O'Connor, K.J. (1097) 227
Mond, J.J., see Feuerstein, N. (1087) 127
Mondelli, R., see Ragg, E. (1076) 37
Mondelli, R., see Ragg, E. (1076) 49
Monk, B.C., see Serrano, R. (1062) 157
Monk, P.N. and Banks, P.
The role of protein kinase C activation and inositol phosphate production in the regulation of cell-surface expression of Mac-1 by complement fragment C5a (1092) 251
Monnens, L.A.H., see Reubsaet, F.A.G. (1083) 305
Monsalve, R.I., Villalba, M., López-Otín, C. and Rodríguez, R.
Structural analysis of the small chain of the 2S albumin, napin nIII, from rapeseed. Chemical and spectroscopic evidence of an intramolecular bond formation (1078) 265
Montandon, P.-E., see Bonny, C. (1089) 213
Montero, C. and Llorente, P.
Further studies on the purine phosphoribosyltransferase 'burst' velocity reaction (1084) 149
Montesinos, C., see Serrano, R. (1062) 157
Moody, A.J., Cooper, C.E. and Rich, P.R.
Characterisation of 'fast' and 'slow' forms of bovine heart cytochrome-*c* oxidase (1059) 189
Moomaw, C.R., see DeMartino, G.N. (1079) 29
Moore, A.L. and Siedow, J.N.
The regulation and nature of the cyanide-resistant alternative oxidase of plant mitochondria (1059) 121
Moore, D.R., see Rikans, L.E. (1074) 195
Moore, G.J., see Bovy, P.R. (1079) 23
Moore, G.J., see Turner, R.J. (1065) 21
Moore, G.R.
Bacterial 4-α-helical bundle cytochromes (1058) 38
Moore, M.R., Hathaway, L.D. and Bircher, J.A.
Progestin stimulation of thymidine kinase in the human breast cancer cell line T47D (1096) 170
Moorman, A.F.M., see Van den Hoff, M.J.B. (1090) 249
Mora, G., see Steinsapir, J. (1094) 103
Moreau, H., see Gargouri, Y. (1085) 322
Moreau, P., see Bertho, P. (1070) 127
Moreau, T., see Tchoupé, J.R. (1076) 149
Moreira, P., see Almeida, M.R. (1097) 224
Morelle, G., Frank, R. and Meyerhans, A.
Restructuring the translation initiation region of the human

parathyroid hormone gene for improved expression in *Escherichia coli* (1089) 320
Morello, L., Sturani, E., Cattaneo, M.G., Brambilla, R., Vicario, A., Alberghina, L. and Zippel, R.
Bombesin stimulates a high affinity GTPase activity in membranes of Swiss 3T3 fibroblasts (1092) 397
Moreno, A.J.M. and Madeira, V.M.C.
Mitochondrial bioenergetics as affected by DDT (1060) 166
Moreno, E., see Benito, B. (1063) 265
Moreno-Aurioles, V.R. and Sobrino, F.
Glucocorticoids inhibit fructose 2,6-bisphosphate synthesis in rat thymocytes. Opposite effect of cycloheximide (1091) 96
Moreno-Bello, M., see Bonilla-Marín, M. (1061) 65
Moreno-Sánchez, R., Devars, S., López-Gómez, F., Uribe, A. and Corona, N.
Distribution of control of oxidative phosphorylation in mitochondria oxidizing NAD-linked substrates (1060) 284
Moreno-Sánchez, R., see Chávez, E. (1070) 461
Morgan, E.H., see Qian, Z.M. (1073) 456
Morgan, H., Taylor, D.M. and Oliveira Jr., O.N.
Proton transport at the monolayer-water interface (1062) 149
Morgan, H.W., see Patchett, M.L. (1077) 291
Morgan, T.D., see Czapla, T.H. (1077) 400
Mori, A., see Liu, D. (1066) 159
Mori, A., see Maruyama, K. (1070) 246
Mori, H., see Kawagishi, H. (1076) 179
Mori, N., see Mokuno, H. (1082) 63
Mori, N., see Shimano, H. (1086) 245
Mori, S., Izumi, S. and Tomino, S.
Complete nucleotide sequences of major plasma protein genes of *Bombyx mori* (1090) 129
Mori, S., see Takahashi, M. (1082) 161
Morii, H., see Honda, S. (1068) 81
Morimoto, R., see Fujita, H. (1090) 311
Morimoto, S.
The effect of Mg^{2+} on the Ca^{2+} binding to troponin C in rabbit fast skeletal myofibrils (1073) 336
Morimoto, T., see Shibuya, Y. (1077) 316
Morino, Y., see Ando, Y. (1073) 374
Morino, Y., see Miyazaki, A. (1082) 143
Morino, Y., see Rahim, A.T.M.A. (1082) 195
Morishita, H., Nakamura, N., Yamakawa, T., Ogino, H., Kanamori, T., Nobuhara, M. and Namba, M.
Stable expression of human tissue-type plasminogen activator regulated by β-actin promoter in three human cell lines: HeLa, WI-38 VA13 and KMS-5 (1090) 216
Morita, K., see Heldman, E. (1091) 417
Morita, T., see Ide, T. (1067) 213
Morita, T., see Tada, M. (1090) 29
Moritani, C., see Ikeda, M. (1070) 77
Morlière, P., Moysan, A., Santus, R., Hüppe, G., Mazière, J.-C. and Dubertret, L.
UVA-induced lipid peroxidation in cultured human fibroblasts (1084) 261
Morlière, P., see Salmon, S. (1086) 1
Moroder, L., see Winand, J. (1080) 181
Moroni, M., see Minelli, A. (1080) 252
Morozkin, A.D., see Mikhailenko, I.A. (1085) 299
Morré, D.J., Crane, F.L., Eriksson, L.C., Löw, H. and Morré, D.M.
NADH oxidase of liver plasma membrane stimulated by diferric transferrin and neoplastic transformation induced by the carcinogen 2-acetylaminofluorene (1057) 140
Morré, D.J., Morré, J.T., Morré, S.R., Sundqvist, C. and Sandelius, A.S.
Chloroplast biogenesis. Cell-free transfer of envelope monogalactosylglycerides to thylakoids (1070) 437
Morré, D.J., see Bertho, P. (1070) 127
Morré, D.M., see Morré, D.J. (1057) 140
Morré, J.T., see Morré, D.J. (1070) 437
Morré, S.R., see Morré, D.J. (1070) 437
Morris, G.E., see Man, N. (1076) 245
Morrisey, J., see Ellison, D.H. (1069) 241
Morrison, A.I., Panayotova-Heiermann, M., Feigl, G., Schölermann, B. and Kinne, R.K.H.
Sequence comparison of the sodium-D-glucose cotransport systems in rabbit renal and intestinal epithelia (1089) 121
Morrison, J.F., see Williams, E.A. (1078) 47
Morrot, G., see Schroeder, F. (1066) 183
Morrow, M.R., Simatos, G.A., Srinivasan, R., Grandal, N., Taylor, L. and Keough, K.M.W.
The effect of changes in gramicidin conformation on bilayer lipid properties (1070) 209
Mortensen, R.F., see Tebo, J.M. (1095) 210
Moschonas, N.K., see Tzimagiorgis, G. (1089) 250
Moser, H.W., see Tiffany, C.W. (1096) 41
Moshage, H.J., see Yap, S.H. (1091) 405
Moss, D., see Raymond, F. (1074) 217
Mossa, G., see Dini, L. (1062) 108
Mosselman, S., see Van Mansfeld, A.D.M. (1087) 235
Motais, R., Guizouarn, H. and Garcia-Romeu, F.
Red cell volume regulation: the pivotal role of ionic strength in controlling swelling-dependent transport systems (1075) 169
Motais, R., see Borgese, F. (1066) 252
Motie, M., Kassner, R.J., Meyer, T.E. and Cusanovich, M.A.
Cyanide-linked dimer-monomer equilibrium of *Chromatium vinosum* ferric cytochrome *c'* (1076) 97
Motin, L.G., see Zilberter, Y.I. (1068) 77
Motojima, K. and Goto, S.
Characterization of liver-specific expression of rat uricase using monoclonal antibodies and cloned cDNAs (1087) 316
Motoyoshi, K., see Makishima, M. (1094) 1
Mottino, A.D., see Pellegrino, J.M. (1074) 25
Moudgil, V.K., Nath, R., Bhakta, A. and Nakao, M.
ZK98299, a novel antiprogesterone that does not interact with chicken oviduct progesterone receptor (1094) 185
Moudgil, V.K., see Zakula, Z. (1092) 188
Mouneimne, Y., Tosi, P.-F., Barhoumi, R. and Nicolau, C.
Electroinsertion of xeno proteins in red blood cell membranes yields a long lived protein carrier in circulation (1066) 83
Mounis, A., Barbey, P., Langris, M. and Bocquet, J.
Detergent-solubilized proteoglycans in rat testicular sertoli cells (1074) 424
Moura, I., see Lai, K.K. (1060) 25
Moura, I., see Moura, J.J.G. (1058) 61
Moura, J.J.G., Costa, C., Liu, M.-Y., Moura, I. and LeGall, J.
Structural and functional approach toward a classification of the complex cytochrome *c* system found in sulfate-reducing bacteria (1058) 61
Mourão, P.A.S., see Salač, M.L.B. (1074) 130
Mouritsen, O.G., see Jørgensen, K. (1062) 227
Mouritsen, O.G., see Jørgensen, K. (1067) 241
Mourtada, A., see Blachier, F. (1091) 151
Mowbray, J., see Patel, B. (1074) 178
Moy, F.T., see Smotkin, E.S. (1061) 33
Moysan, A., see Morlière, P. (1084) 261
Mueller, H.W., see Garcia, M.C. (1083) 37
Mueller, K., Schellenberger, V., Borneleit, P. and Treide, A.
The alkaline phosphatase from bone: transphosphorylating activity and kinetic mechanism (1076) 308
Muggleton-Harris, A.L., see Shiels, A. (1097) 81
Muggleton-Harris, A.L., see Shiels, A. (1097) 318
Muhlrad, A.
The isolated 21 kDa N-terminal fragment of myosin binds to actin in an ATP and ionic strength-dependent manner (1077) 308

Mukherjee, K.D., see Fehling, E. (1082) 239
Mukohata, Y., see Ikeda, M. (1070) 77
Mulder, E., see Zegers, N.D. (1073) 23
Mülder, H.S., see Lankelma, J. (1093) 147
Mulder, M., De Wit, E. and Havekes, L.M.
The binding of human lipoprotein lipase treated VLDL by the human hepatoma cell line HepG2 (1081) 308
Mulder, W.R., see Jansen, J.J.M. (1089) 68
Muldoon, T.G., see Steinsapir, J. (1094) 103
Müller, A., see Struck, A. (1060) 262
Muller, M. and Renkawitz, R.
The glucocorticoid receptor (1088) 171
Müller, M.G., see Griebenow, K. (1059) 226
Muller, S.J. and Caradonna, S.
Isolation and characterization of a human cDNA encoding uracil-DNA glycosylase (1088) 197
Muller-Eberhard, U., see Solar, I. (1062) 51
Mullineaux, C.W., Griebenow, S. and Braslavsky, S.E.
Photosynthetic energy storage in cyanobacterial cells adapted to light-states 1 and 2. A laser-induced optoacoustic study (1060) 315
Municio, A.M., see Portolés, M.T. (1092) 1
Munkonge, F.M., see Burgess, A.J. (1064) 139
Munkonge, F.M., see Cooke, D.T. (1061) 156
Munn, A.L., Whitfeld, P.R., Bottomley, W., Hudson, G.S., Jans, D.A., Gibson, F. and Cox, G.B.
The chloroplast β-subunit allows assembly of the *Escherichia coli* F_0 portion of the energy transducing adenosine triphosphatase (1060) 82
Munn, T.Z., see DeMartino, G.N. (1079) 29
Muñoz, M., see Sweiry, J.H. (1070) 135
Muñoz-Delgado, E., see Cánovas-Muñoz, M.D. (1076) 259
Murakami, K. and Piomelli, S.
Decay of mammalian hexokinase: characterization of the specific proteolytic activity (1080) 83
Murakami, K., see Yoshino, M. (1073) 200
Murakami, T., Hattori, T. and Takatsuki, K.
A principal neutralizing domain of human immunodeficiency virus type 1 interacts with proteinase-like molecule(s) at the surface of Molt-4 clone 8 cells (1079) 279
Muraki, M., Harata, K., Hayashi, Y., Machida, M. and Jigami, Y.
The importance of precise positioning of negatively charged carboxylate in the catalytic action of human lysozyme (1079) 229
Muramatu, M. and Kozaki, Y.
A trypsin-like proteinase appearing at 17 h and 17 min in the cell cycle time of HeLa cells correlates with the onset of DNA synthesis (1087) 87
Murano, T., see Masuda, Y. (1075) 131
Murata, N., see Okuyama, H. (1084) 13
Murata, N., see Papageorgiou, G.C. (1057) 361
Murata, N., see Sato, N. (1082) 108
Muratkhodjaev, J.N., see Krasilnikov, O.V. (1067) 166
Murdock, G.L., Pineda, J., Nagorsky, N., Lawrence, S.S., Heritage, R. and Warren, J.C.
Estradiol 17β-dehydrogenase: full enzymatic activity in the absence of zinc (1076) 197
Murer, H., see Kempson, S.A. (1091) 324
Murono, E.P. and Washburn, A.L.
Δ^5-3β-Hydroxysteroid dehydrogenase-isomerase activity in two distinct density Leydig cells from immature rats. Differences in responsiveness to human chorionic gonadotropin or 8-bromoadenosine 3′,5′-monophosphate (1091) 55
Murphy, B., see Ehnholm, C. (1086) 255
Murphy, B.J., see Tuana, B.S. (1091) 236
Murphy, C.M., see Roesijadi, G. (1074) 230
Murphy, C.M., see Unger, M.E. (1074) 371
Murphy, D.J., Keen, J.N., O'Sullivan, J.N., Au, D.M.Y., Edwards, E.-W., Jackson, P.J., Cummins, I., Gibbons, T., Shaw, C.H. and Ryan, A.J.
A class of amphipathic proteins associated with lipid storage bodies in plants. Possible similarities with animal serum apolipoproteins (1088) 86
Murphy, G., see Craig, F.M. (1074) 243
Murphy, G., see Ward, R.V. (1079) 242
Murphy, J.J., Yaxley, J.C. and Norton, J.D.
Evidence for protein kinase C – independent pathways mediating phorbol ester induced plasmacytoid differentiation of B chronic lymphocytic leukemia cells (1092) 110
Murray, A.W., see Oh, S.Y. (1094) 243
Murray, J.J., see Gay, J.C. (1095) 236
Murray, R.W., see Pape, M.E. (1086) 326
Murthy, N.S. and Worthington, C.R.
X-ray diffraction evidence for the presence of discrete water layers on the surface of membranes (1062) 172
Murthy, S.D.S., see Shubin, V.V. (1060) 28
Mus-Veteau, I., Diaz, D., Gracia-Mora, J., Guigliarelli, B., Chottard, G. and Bruschi, M.
Spectroscopic studies of the nickel-substituted *Desulfovibrio vulgaris* Hildenborough rubredoxin: implication for the nickel site in hydrogenases (1060) 159
Musters, R.J.P., Post, J.A. and Verkleij, A.J.
The isolated neonatal rat-cardiomyocyte used in an in vitro model for 'ischemia'. I. A morphological study (1091) 270
Muszyńska, G., see Dobrowolska, G. (1080) 221
Muto, K., see Nohno, T. (1089) 273
Muto, N., see Tanaka, M. (1078) 127
Muto, S., see Kamada, Y. (1093) 72
Mutoh, Y., see Ohta, T. (1059) 157
Mykkanen, H., see Tolosa de Talamoni, N. (1094) 224
Myrset, A.H., Johnsen, B.R., Kulseth, M.A., Wassdal, I. and Helgeland, L.
Investigation of a possible correlation between rates of secretion and microsomal membrane association of plasma proteins synthesized by rat liver (1070) 229

N

Nadareishvili, K.G., see Melikyan, G.B. (1068) 245
Naftalin, R.J. and Rist, R.J.
3-*O*-Methyl-D-glucose transport in rat red cells: effects of heavy water (1064) 37
Nag, K., Boland, C., Rich, N. and Keough, K.M.W.
Epifluorescence microscopic observation of monolayers of dipalmitoylphosphatidylcholine: dependence of domain size on compression rates (1068) 157
Nagainis, P.A., see Edmunds, T. (1077) 197
Nagano, T., see Yamanaka, T. (1058) 48
Naganuma, S., see Hasumi, K. (1083) 289
Nagao, M., see Kitagawa, Y. (1089) 339
Nagarajan, V., see Becker, M. (1057) 299
Nagasaki, T. and Lieberman, M.A.
Potentiation of the activity of mouse liver-derived HBGF-1-like growth factor by heparin and dithiothreitol: evidence for the involvement of a plasma factor (1094) 330
Nagasawa, T., see Yanagisawa, H. (1088) 380
Nagata, K.-i., see Nozawa, Y. (1082) 219

Nagata, N., see Negishi, M. (1066) 77
Nagata, N., see Wada, S. (1074) 182
Nagata, Y., Fukumori, F., Sakai, H., Hagiwara, T., Hiratsuka, Y., Kochibe, N. and Kobata, A.
Crystallization and characterization of a lectin obtained from a mushroom, *Aleuria aurantia* (1076) 187
Nagatsuka, T., Fukuhara, S., Akabori, K. and Toyoshima, Y.
Disintegration and reconstitution of Photosystem II reaction center core complex. II . Possible involvement of low-molecular-mass proteins in the functioning of Q_A in the PS II reaction center (1057) 223
Nagel-Starczynowska, G., Nowak, G. and Kaletha, K.
Purification and properties of AMP-deaminase from human uterine smooth muscle (1073) 470
Nagel-Starczynowska, G., see Nowak, G. (1078) 303
Nagel, W., see Granitzer, M. (1069) 87
Nagorsky, N., see Murdock, G.L. (1076) 197
Nagradova, N.K., see Kuzminskaya, E.V. (1075) 123
Naik, U.P., Kornecki, E. and Ehrlich, Y.H.
Phosphorylation and dephosphorylation of human platelet surface proteins by an ecto-protein kinase/phosphatase system (1092) 256
Nair, V., Buenger, G.S. and Sells, T.B.
Inhibition of mammalian adenosine deaminase by novel functionalized 2′,3′-dideoxyadenosines (1078) 121
Naito, H., see Sato, R. (1077) 413
Naito, M., see Kuzuya, M. (1084) 198
Naito, M., see Kuzuya, M. (1096) 155
Naito, M., see Masuda, M. (1083) 235
Najera, L., see George, S.K. (1061) 26
Nakache, E., Bouloussa, O., Bourguet, J., Lovera, J. and Gregoire, P.
Vesicles and particles of sodium bis(2-ethylhexyl) phosphate in binary and ternary systems (1074) 413
Nakagami, H., see Takagi, K. (1092) 15
Nakagawa, H., see Yang, W.-J. (1075) 75
Nakagawa, H., see Yang, W.-J. (1075) 83
Nakajima, H., see Okamura, Y. (1073) 538
Nakamura, K., see Yonezawa, S. (1073) 155
Nakamura, N., see Morishita, H. (1090) 216
Nakamura, T., Fonteh, A.N., Hubbard, W.C., Triggiani, M., Inagaki, N., Ishizaka, T. and Chilton, F.H.
Arachidonic acid metabolism during antigen and ionophore activation of the mouse bone marrow derived mast cell (1085) 191
Nakamura, T., see Sato, F. (1091) 188
Nakamura, Y., see Igeta, H. (1079) 303
Nakamura, Y., see Takenaga, K. (1087) 101
Nakanishi, M., see Ohta, T. (1059) 157
Nakano, A., see Nishikawa, S.-i. (1093) 135
Nakano, K., see Matuda, S. (1089) 1
Nakano, M., see Sakurai, T. (1086) 273
Nakano, S., Koga, T., Ichinose, I., Yamada, H. and Niho, Y.
Evidence for the involvement of endogenous thymidine in the density-inhibition of tumorigenic Chinese hamster V79 cells (1094) 263
Nakano, T. and Graf, T.
Goose-type lysozyme gene of the chicken: sequence, genomic organization and expression reveals major differences to chicken-type lysozyme gene (1090) 273
Nakano, T., see Kurihara, H. (1082) 285
Nakano, T., see Oka, K. (1089) 13
Nakano, T., see Takagi, K. (1092) 15
Nakano, Y., Sugita, Y., Ishikawa, Y., Choi, N.-H., Tobe, T. and Tomita, M.
Isolation of two forms of decay-accelerating factor (DAF) from human urine (1074) 326
Nakano, Y., see Watanabe, F. (1075) 36
Nakao, A., see Watanabe, T. (1074) 398
Nakao, M., see Moudgil, V.K. (1094) 185
Nakao, T., Kon, K., Ando, S. and Hirabayashi, Y.
A NeuGc-containing trisialoganglioside of bovine brain (1086) 305
Nakashima, H., see Nakashima, K. (1094) 257
Nakashima, K., Nakashima, H. and Shimoyama, M.
Deoxyadenosine triphosphate acting as an energy-transferring molecule in adenosine deaminase inhibited human erythrocytes (1094) 257
Nakashima, K., see Hayashi, K. (1082) 152
Nakashima, K., see Tanaka, M. (1088) 385
Nakashima, K., see Yamakawa, M. (1087) 247
Nakashima, S., see Habuchi, O. (1093) 153
Nakashima, S., see Nozawa, Y. (1082) 219
Nakaya, K., see Igeta, H. (1079) 303
Nakayama, F., see Chijiiwa, K. (1086) 44
Nakayama, R., Yasuda, K., Okumura, T. and Saito, K.
Effect of 17β-estradiol on PAF and prostaglandin levels in oophorectomized rat uterus (1085) 235
Nakayama, R., see Louie, P. (1087) 25
Nakayama, T., see Hara, A. (1075) 61
Nakazato, K. and Hatano, Y.
Monensin-mediated antiport of Na^+ and H^+ across liposome membrane (1064) 103
Nakazima, Y., see Ichikawa, M. (1073) 309
Nalam, V.K., see Kottke, M. (1061) 215
Nalbandyan, R.M., see Nersissian, A.M. (1076) 337
Nalbone, G., see Grataroli, R. (1082) 130
Nałęcz, K.A., see Nałęcz, M.J. (1079) 87
Nałęcz, M.J., Nałęcz, K.A. and Azzi, A.
Purification and functional characterisation of the pyruvate (monocarboxylate) carrier from baker's yeast mitochondria (*Saccharomyces cerevisiae*) (1079) 87
Namba, M., see Morishita, H. (1090) 216
Nanbu, R., Kubo, T., Ueno, K. and Natori, S.
Preferential deadenylation of *Sarcophaga* lectin mRNA during its acute phase expression (1088) 71
Nanes, M.S., see Rubin, J.E. (1091) 87
Nanjee, M.N. and Miller, N.E.
The very-high-density lipoprotein fraction of rabbit plasma is rich in tissue-derived cholesterol (1086) 241
Nanjo, F., see Sakai, K. (1079) 65
Naor, Z., see Zor, U. (1091) 385
Napolitano, A., D'Ischia, M., Prota, G., Havens, M. and Tramposch, K.
2-Aryl-1,3-thiazolidines as masked sulfhydryl agents for inhibition of melanogenesis (1073) 416
Napolitano, A., see D'Ischia, M. (1073) 423
Narayanan, N., Su, N. and Bedard, P.
Inhibitory and stimulatory effects of fluoride on the calcium pump of cardiac sarcoplasmic reticulum (1070) 83
Narciso, J.P., see Crawford, J.M. (1085) 223
Narushima, K., see Itonori, S. (1081) 321
Nassif, N., see Titchen, D.A. (1089) 61
Nath, R., see Koul, H.K. (1064) 184
Nath, R., see Moudgil, V.K. (1094) 185
Natori, S., see Hirai, H. (1088) 191
Natori, S., see Hirai, H. (1090) 305
Natori, S., see Kim, J.W. (1089) 21
Natori, S., see Nanbu, R. (1088) 71
Natsui, K., Ueda, N., Yamamoto, S., Komatsu, N. and Watanabe, K.
Arachidonate 5-lipoxygenase of porcine pancreas: its localization in acinar cells (1085) 241
Natuzzi, D., see Scalera, V. (1062) 187
Naumov, A.P., see Bezprozvanny, I.B. (1064) 75
Naumova, I.B., see Tul'skaya, E.M. (1074) 237
Navas, P., see Alcain, F.J. (1073) 380

Naves, M.L., see McGregor, S.J. (1095) 196
Naziruddin, B., see Padhye, N.V. (1077) 332
Neale, P.J. and Melis, A.
Dynamics of Photosystem II heterogeneity during photoinhibition: depletion of PS II_β from non-appressed thylakoids during strong-irradiance exposure of *Chlamydomonas reinhardtii* (1056) 195
Nebot, C., see Viallard, V. (1085) 265
Néel, D., see Feugeas, J.-P. (1066) 59
Neelen, C., see Zegers, N.D. (1073) 23
Negishi, M., Irie, A., Nagata, N. and Ichikawa, A.
Specific binding of glycyrrhetinic acid to the rat liver membrane (1066) 77
Negishi, M., see Takahashi, S. (1093) 207
Negre-Salvayre, A., Alomar, Y., Troly, M. and Salvayre, R.
Ultraviolet-treated lipoproteins as a model system for the study of the biological effects of lipid peroxides on cultured cells. III. The protective effect of antioxidants (probucol, catechin, vitamin E) against the cytotoxicity of oxidized LDL occurs in two different ways (1096) 291
Negrel, R., see Catalioto, R.-M. (1091) 364
Nehls, U., Hemmer, S., Röhlen, D.A., Van der Pas, J.C., Preis, D., Sackmann, U. and Weiss, H.
cDNA and genomic DNA sequence of the 21.3 kDa subunit of NADH:ubiquinone reductase (complex I) from *Neurospora crassa* (1088) 325
Nehls, U., see Preis, D. (1090) 133
Nehls, U., see Weidner, U. (1089) 391
Neil, K., see Hamilton, K.S. (1062) 220
Nejad, H., see Bottje, W. (1073) 168
Nelson, B.D., see Kabir, F. (1057) 147
Nelson, B.D., see Marjanovic, S. (1087) 1
Nemecz, G., see Schroeder, F. (1066) 183
Nersissian, A.M., Melkonyan, V.Z. and Nalbandyan, R.M.
Studies on plantacyanin. IV. Reconstitution with Cu-thionein, oxidation by cytochrome oxidase and autooxidation in the presence of cardiolipin (1076) 337
Nesbitt, J.E. and Fuller, G.M.
Transcription and translation are required for fibrinogen mRNA degradation in hepatocytes (1089) 88
Nespoulous, C., see Martinat, N. (1077) 339
Nešpůrková, L., see Metlička, R. (1069) 175
Nestel, U., see Welte, W. (1080) 271
Neuberger, J.M., see Garner, C.M. (1091) 41
Neubert, K., see Rahfeld, J. (1076) 314
Newell, W.R., Van Amerongen, H., Barber, J. and Van Grondelle, R.
Spectroscopic characterisation of the reaction centre of Photosystem II using polarised light: Evidence for β-carotene excitons in PS II reaction centres (1057) 232
Newgard, C.B., Norkiewicz, B., Hughes, S.D., Frenkel, R.A., Coats, W.S., Martiniuk, F. and Johnston, J.M.
Developmental expression of glycogenolytic enzymes in rabbit tissues: possible relationship to fetal lung maturation (1090) 333
Newman, L.M., see Allen, D.W. (1081) 267
Newman, P., Kube, E., Gerke, V. and Weber, K.
Polyisoprenylation of the CAAX motif – an in vitro protein synthesis study (1080) 227
Newsome, J., see Iverson, S.J. (1083) 109
Newton, G. and Gennis, R.B.
In vivo assembly of the cytochrome *d* terminal oxidase complex of *Escherichia coli* from genes encoding the two subunits expressed on separate plasmids (1089) 8
Newton, R.C., see Uhl, J. (1097) 283
Nexø, E., see Jørgensen, P.E. (1074) 284
Ng, T.B., see Ho, W.K.K. (1088) 311
Nguyen, T.-D., see Halpern, H.J. (1093) 121
Nicholas, A.R. and Jones, M.N.
The effect of blood on the uptake of liposomal lipid by perfused rat liver (1074) 105
Nicholas, A.R., see Jones, M.N. (1065) 145
Nicholas, K.R., see Messer, M. (1077) 79
Nicholls, D.G., see McMahon, H.T. (1059) 243
Nichols, A.V., Blanche, P.J., Genzel-Boroviczeny, O., Forte, T.M. and Gong, E.L.
Apolipoprotein-specific populations in high density lipoproteins of human cord blood (1085) 306
Nichols, G.M., see Alvarez-Hernandez, X. (1070) 205
Nichols, R.C. and Vanderhoek, J.Y.
Calcium regulation of the human PMN cytosolic 15-lipoxygenase (1085) 77
Nicolas, J.P., see Guéant, J.L. (1073) 614
Nicolau, C., see Mouneimne, Y. (1066) 83
Nicolay, K., see De Wolf, F.A. (1096) 67
Nicolson, R.E., see Wootton, J.C. (1057) 157
Niedermann, G., Weissig, V., Sternberg, B. and Lasch, J.
Carboxyacyl derivatives of cardiolipin as four-tailed hydrophobic anchors for the covalent coupling of hydrophilic proteins to liposomes (1070) 401
Niel, E., see Zérouga, M. (1086) 295
Nielsen, P.J.
Primary structure of a human protein kinase regulator protein (1088) 425
Nielson, C.P., Stutchfield, J. and Cockcroft, S.
Chemotactic peptide stimulation of arachidonic acid release in HL60 cells, an interaction between G protein and phospholipase C mediated signal transduction (1095) 83
Nieto, A., Correas, I., López-Otín, C. and Avila, J.
Tau-related protein present in paired helical filaments has a decreased tubulin binding capacity as compared with microtubule-associated protein tau (1096) 197
Nieva, J.-L., see Burger, K.N.J. (1068) 249
Nigon, F., Rouis, M., Foster, S.J. and Chapman, M.J.
Native low-density lipoproteins stimulate leukotriene B_4 production by human monocyte-derived macrophages (1083) 230
Nigon, F., see Lane, A. (1097) 161
Niho, Y., see Nakano, S. (1094) 263
Nikiforovich, G.V., see Vesterman, B. (1079) 39
Nilius, B., see Albitz, R. (1068) 254
Nilsen-Hamilton, M., see Davis, T.R. (1095) 145
Nilsen, T.
Effects of calcium on hepatocyte iron uptake from transferrin, iron-pyrophosphate and iron-ascorbate (1095) 39
Nilsson, Å., see Chen, Q. (1083) 173
Nilsson, Å., see Melin, T. (1075) 259
Nilsson, J., see Dunning, A.M. (1096) 231
Nimmo, H.G., see McNaughton, G.A.L. (1093) 189
Ninio, E. and Bessou, G.
Biosynthesis of paf-acether. XVI. Acetyltransferase specificity determines composition of paf-acether molecular species in human polymorphonuclear neutrophils (1085) 136
Nir, S., see Pedroso de Lima, M.C. (1070) 446
Nishi, N., Shimizu, C., Okutani, T., Kagawa, Y., Takasuga, H., Suno, M. and Wada, F.
Rat prostatic growth factors: purification and characterization of high and low molecular weight epidermal growth factors from rat dorsolateral prostate (1095) 268
Nishiguchi, Y., see Yamakawa, M. (1087) 247
Nishihara, M. and Koga, Y.
Hydroxyarchaetidylserine and hydroxyarchaetidyl-*myo*-inositol in *Methanosarcina barkeri*: polar lipids with a new ether core portion (1082) 211
Nishihira, J., see Sakamoto, W. (1074) 251
Nishikawa, S.-i. and Nakano, A.

The GTP-binding Sar1 protein is localized to the early compartment of the yeast secretory pathway (1093) 135
Nishikawa, Y.
An FM3A mutant, G258, with a mutation that affects both cell growth and oligosaccharide-lipid synthesis (1091) 135
Nishimaki-Mogami, T., see Tijburg, L.B.M. (1085) 167
Nishimura, C., Yamaoka, T., Mizutani, M., Yamashita, K., Akera, T. and Tanimoto, T.
Purification and characterization of the recombinant human aldose reductase expressed in baculovirus system (1078) 171
Nishimura, K., Suzuki, A. and Kino, H.
Sphingolipids of a cestode *Metroliasthes coturnix* (1086) 141
Nishimura, Y., see Hayashi, A. (1083) 179
Nishina, H., see Tanabe, H. (1094) 281
Nishino, N., see Kato, T. (1063) 191
Nishino, N., see Shibuya, Y. (1077) 316
Nishino, N., see Shibuya, Y. (1097) 23
Nishio, E., see Hayashi, K. (1082) 152
Nishiura, T., Ishibashi, K. and Abe, K.
Isolation of three forms of cystatin from submandibular saliva of isoproterenol-treated rats, its properties and kinetic data (1077) 346
Nishiyama, K.-i., Kabuyama, Y., Akimaru, J., Matsuyama, S.-i., Tokuda, H. and Mizushima, S.
SecY is an indispensable component of the protein secretory machinery of *Escherichia coli* (1065) 89
Nishiyama, M., see Hashimoto, Y. (1088) 225
Nishiyama, M., see Tamaki, T. (1088) 292
Nitta, K., see Tsuge, H. (1078) 77
Nitti, G., see Birolo, L. (1080) 198
Nitti, G., see Sannia, G. (1073) 114
Niwa, M., see Kusunoki, C. (1087) 95
Nobuhara, M., see Morishita, H. (1090) 216
Noctor, G., Rees, D., Young, A. and Horton, P.
The relationship between zeaxanthin, energy-dependent quenching of chlorophyll fluorescence, and trans-thylakoid pH gradient in isolated chloroplasts (1057) 320
Noctor, G.D., see Ruban, A.V. (1059) 355
Noda, K., Shiota, K. and Takahashi, M.
Purification and characterization of rat ovarian 20α-hydroxysteroid dehydrogenase (1079) 112
Noguchi, S., see Ohta, T. (1059) 157
Noguchi, T., see Sato, R. (1077) 413
Nohno, T., Muto, K., Noji, S., Saito, T. and Taniguchi, S.
Isoforms of retinoic acid receptor β expressed in the chicken embryo (1089) 273
Noji, S., see Nohno, T. (1089) 273
Nokubo, M., see Carrillo, M.-C. (1077) 325
Nolet, S., Mbikay, M. and Chrétien, M.
Prostatic secretory protein PSP_{94}: gene organization and promoter sequence in Rhesus monkey and human (1089) 247
Noma, M., see Tsuge, H. (1078) 77
Nomura, H., see Nomura, T. (1092) 94
Nomura, T., Fukui, T. and Ichikawa, A.
Purification and characterization of nucleoside diphosphate kinase from spinach leaves (1077) 47
Nomura, T., Nomura, Y., Tachibana, M., Nomura, H., Ukai, K., Yokoyama, R. and Hagino, Y.
α_1-Adrenergic regulation of ketogenesis in isolated rat hepatocytes (1092) 94
Nomura, Y., see Nomura, T. (1092) 94
Nomura, Y., see Uehara, T. (1088) 41
Nonaka, I., see Goto, Y.-i. (1097) 238
Norberg, P., Månsson, J.-E. and Liljenberg, C.
Characterization of glucosylceramide from plasma membranes of plant root cells (1066) 257
Nordén, B., see Saalman, E. (1064) 124
Nordlund, S., see Hammarström, A. (1080) 259
Norkiewicz, B., see Newgard, C.B. (1090) 333
Norkus, E.P., see Jialal, I. (1086) 134
Norton, J.D., see Murphy, J.J. (1092) 110
Noshiro, H., see Chijiiwa, K. (1086) 44
Notter, R.H., see Turcotte, J.G. (1084) 1
Nowak, G., Nagel-Starczynowska, G. and Kaletha, K.
Purification and properties of AMP-deaminase from human uterine smooth muscle. Regulation by adenylate energy charge and activated fatty acids (1078) 303
Nowak, G., see Nagel-Starczynowska, G. (1073) 470
Nozawa, T., Ohta, M., Hatano, M. and Madigan, M.T.
Phosphorylation and dephosphorylation reactions in chromatophores of *Chromatium vinosum* and *Chromatium tepidum* (1060) 189
Nozawa, Y., Nakashima, S. and Nagata, K.-i.
Phospholipid-mediated signaling in receptor activation of human platelets (1082) 219
Nozawa, Y., see Takahashi, M. (1082) 161
Nugent, J.H.A., see Bowden, S.J. (1060) 89
Nugent, J.H.A., see Corrie, A.R. (1057) 384
Nugent, J.H.A., see Hallahan, B.J. (1059) 181
Nunez, D.J., see Hobbs, J.D. (1059) 37
Nunez, E.A., see Garreau, B. (1094) 339
Nunez, E.A., see Savu, L. (1097) 19
Nunomura, W.
C-reactive protein in eel: purification and agglutinating activity (1076) 191
Nupenko, E.V., Panchenko, M.P., Starikova, M.G., Grishin, A.V. and Tkachuk, V.A.
Apparent activation of rabbit lung membrane adenylate cyclase by cytosolic proteins possessing adenylate kinase activity (1091) 213
Nusgens, B., see Paye, M. (1073) 437
Nusgens, B., see Yonemasu, K. (1096) 47
Nusse, R., see Van de Vijver, M.J. (1072) 33
Nuutinen, M., see Petruzzelli, R. (1076) 221

O

Obayashi, H., see Koshi, S. (1075) 231
O'Brien, J.A., Walters, R.J. and Sepúlveda, F.V.
Regulatory volume decrease in small intestinal crypts is inhibited by K^+ and Cl^- channel blockers (1070) 501
O'Brodovich, H., see Orser, B.A. (1094) 19
O'Carra, P., see Feller, G. (1079) 343
Ochoa, B., see Martinez, M.J. (1085) 106
Ochs, R.S., see Conricode, K.M. (1095) 161
O'Conner, J.L., see Kellom, T.A. (1092) 101
O'Connor, C.D., see Tunwell, R.E.A. (1073) 585
O'Connor, K.J. and Moncada, S.
Glucocorticoids inhibit the induction of nitric oxide synthase and the related cell damage in adenocarcinoma cells (1097) 227
Oeckl, C., see Grisshammer, R. (1088) 183
Oeckl, C., see Söhlemann, P. (1089) 103
Oelbaum, R.S., see Li, S.-R. (1097) 293
Oette, K., see Stein, Y. (1084) 87
Ogasawara, Y., Kuroki, Y., Shiratori, M., Shimizu, H., Miyamura, K. and Akino, T.
Ontogeny of surfactant apoprotein D, SP-D, in the rat lung (1083) 252

Ogasawara, Y., see Kuroki, Y. (1086) 185
Ogino, H., see Morishita, H. (1090) 216
Ogino, R., see Hashimoto, H. (1095) 140
O'Grady, R.L., see Whitelock, J.M. (1073) 107
Ogura, H., see Makishima, M. (1094) 1
Oh, S.Y., Grupen, C.G. and Murray, A.W.
Phorbol ester induces phosphorylation and down-regulation of connexin 43 in WB cells (1094) 243
Ohara, A., see Marunaka, Y. (1070) 152
Ohara-Imaizumi, M., see Kawasaki, Y. (1067) 71
Ohashi, S., see Honda, S. (1068) 81
Ohdo, S., see Okada, H. (1078) 377
Ohira, Y., Ishine, S., Inoue, N. and Yunoki, K.
Reduced growth of Ehrlich ascites tumor cells in creatine depleted mice fed β-guanidinopropionic acid (1097) 117
Ohishi, N., see Inagaki, T. (1077) 285
Ohki, H., see Takikawa, H. (1081) 39
Ohki, K., see Takahashi, H. (1069) 229
Ohlrogge, J.B., Browse, J. and Somerville, C.R.
The genetics of plant lipids (1082) 1
Ohmisya, K., see Urashima, T. (1073) 225
Ohnishi, T., see Milner, T.G. (1082) 71
Ohno, K., Tanaka, M., Ino, H., Suzuki, H., Tashiro, M., Ibi, T., Sahashi, K., Takahashi, A. and Ozawa, T.
Direct DNA sequencing from colony: analysis of multiple deletions of mitochondrial genome (1090) 9
Ohno, M., see Kato, T. (1063) 191
Ohsawa, N., see Shimano, H. (1090) 91
Ohshika, M., see Yamazaki, M. (1063) 175
Ohshima, K., see Kato, K. (1074) 201
Ohshima, K., see Kato, K. (1080) 173
Ohta, M., Tanimoto, T. and Tanaka, A.
Localization, isolation and properties of three NADPH-dependent aldehyde reducing enzymes from dog kidney (1078) 395
Ohta, M., see Nozawa, T. (1060) 189
Ohta, S., see Harada, M. (1056) 279
Ohta, S., see Matuda, S. (1089) 1
Ohta, T., Noguchi, S., Nakanishi, M., Mutoh, Y., Hirata, H., Kagawa, Y. and Kawamura, M.
The 'lysine cluster' in the N-terminal region of Na^+/K^+-ATPase α-subunit is not involved in ATPase activity (1059) 157
Ohta, T., see Harada, M. (1056) 279
Ohtani, H., see Hayashi, K. (1082) 152
Ohya, Y., see Anraku, Y. (1093) 169
Ohyanagi, H., see Asada, H. (1080) 34
Ohyashiki, T., Sakata, N., Kamata, K. and Matsui, K.
A study on peroxidative damage of the porcine intestinal brush-border membranes using a fluorogenic thiol reagent, *N*-(1-pyrene)maleimide (1067) 159
Oikarinen, A., Mäkelä, J., Vuorio, T. and Vuorio, E.
Comparison on collagen gene expression in the developing chick embryo tendon and heart. Tissue and development time-dependent action of dexamethasone (1089) 40
Oikawa, K., see Masuda, Y. (1075) 131
Oikonomakos, N.G., see Leonidas, D.D. (1076) 305
Oizumi, J. and Hayakawa, K.
Enkephalin hydrolysis by human serum biotinidase (1074) 433
Oka, K., Nakano, T., Tkalcevic, G.T., Scow, R.O. and Brown, W.V.
Molecular cloning of mouse hepatic triacylglycerol lipase: gene expression in combined lipase-deficient (*cld/cld*) mice (1089) 13
Oka, T., see Mokuno, H. (1082) 63
Okabe, H., see Shibuya, Y. (1077) 316
Okabe, H., see Shibuya, Y. (1097) 23
Okabe, T., see Kawasaki, Y. (1067) 71
Okabe, Y., Sakai-Tomita, Y., Mitani, Y., Tsuda, M. and Tsuchiya, T.
A novel mechanism of cation/substrate cotransport: Na^+/H^+/adenosine cotransport in *Vibrio parahaemolyticus* (1059) 332
Okada, H., Yohda, M., Giga-Hama, Y., Ueno, Y., Ohdo, S. and Kumagai, H.
Distribution and purification of aspartate racemase in lactic acid bacteria (1078) 377
Okada, H., see Yohda, M. (1089) 234
Okada, M., Ishikawa, M. and Mizushima, Y.
Identification of a ubiquitin- and ATP-dependent protein degradation pathway in rat cerebral cortex (1073) 514
Okajima, N., see Okuyama, H. (1084) 13
Okamoto, E., see Seo, N. (1074) 439
Okamoto, Y., see Sato, F. (1091) 188
Okamura, E., see Matsuzaki, K. (1070) 419
Okamura, Y., Yamazaki, M., Yamaguchi, T., Komoda, Y., Sugimoto, A. and Nakajima, H.
Anti-bilirubin monoclonal antibody. III. Preparation and properties of monoclonal antibodies to unconjugated bilirubin-IXα (1073) 538
Okazaki, I.J., see Allen, D.W. (1081) 267
Okochi, K., see Yae, Y. (1078) 369
Okochi, V., see Vilain, A.-C. (1076) 401
Okuda, M., see Ikai, I. (1074) 289
Okumura, H., see Matsumoto, K. (1092) 311
Okumura, H., see Tamaki, T. (1088) 292
Okumura, T., see Nakayama, R. (1085) 235
Okutani, T., see Nishi, N. (1095) 268
Okuyama, H., Okajima, N., Sasaki, S., Higashi, S. and Murata, N.
The *cis / trans* isomerization of the double bond of a fatty acid as a strategy for adaptation to changes in ambient temperature in the psychrophilic bacterium, *Vibrio* sp. strain ABE-1 (1084) 13
Olaya, P. and Wasserman, M.
Effect of calpain inhibitors on the invasion of human erythrocytes by the parasite *Plasmodium falciparum* (1096) 217
Oliveira Jr., O.N., see Morgan, H. (1062) 149
Oliver, T., see Misra, M. (1077) 107
Oliw, E.H. and Sprecher, H.W.
Metabolism of polyunsaturated ($n-3$) fatty acids by monkey seminal vesicles: isolation and biosynthesis of omega-3 epoxides (1086) 287
Olofsson, A., see Thelestam, M. (1062) 245
Olofsson, S.-O., see Olsson, U. (1097) 37
Olson, J.M., see Højrup, P. (1077) 220
Olson, J.M., see Wullink, W. (1060) 97
Olson, M.S., see Harvey, S.A.K. (1073) 486
Olsson, U., Camejo, G., Olofsson, S.-O. and Bondjers, G.
Molecular parameters that control the association of low density lipoprotein apo B-100 with chondroitin sulphate (1097) 37
Om Kumar, R.V., Banerji, A., Ramakrishna Kurup, C.K. and Ramasarma, T.
The nature of inhibition of 3-hydroxy-3-methylglutaryl CoA reductase by garlic-derived diallyl disulfide (1078) 219
Omnaas, J., see Mauri, F. (1078) 63
Omori, A., see Tokunaga, M. (1080) 135
Oñaderra, M., see Gasset, M. (1068) 9
Oñaderra, M., see Gasset, M. (1080) 51
Ondrias, M.R., see Hobbs, J.D. (1059) 37
Ono, S., see Kato, T. (1063) 191
Ono, T., see Maruo, K. (1074) 62
Ookhtens, M., see Takikawa, H. (1084) 247
Ooms, J.J.J., Versluis, W., Van Vliet, P.H. and Vredenberg, W.J.
The flash-induced P515 shift in relation to ATPase activity in chloroplasts (1056) 293
Oosterhof, A., see Jacobs, A.E.M. (1096) 14
Op den Kamp, J.A.F., see In 't Veld, G. (1065) 203
Op den Kamp, J.A.F., see Moll, G.N. (1062) 206

Op den Kamp, J.A.F., see Simões, A.P. (1063) 45
Op den Kamp, J.A.F., see Zlatkine, P. (1065) 225
Ordal, G.W., see Grazia Tozzi, M. (1080) 160
Oretskaya, T.S., see Kubareva, E.A. (1088) 395
Orimo, H., see Sato, F. (1091) 188
Oritani, H., see Hara, A. (1075) 61
Orme, F., see Gross, C.T. (1079) 153
Oronsky, A.L., see Suárez, G. (1075) 12
Orosz, F., see Vértessy, B.G. (1078) 236
Orser, B.A., Bertlik, M., Fedorko, L. and O'Brodovich, H.
Cation selective channel in fetal alveolar type II epithelium (1094) 19
Ortega-Blake, I., see Bonilla-Marín, M. (1061) 65
Ortega-Blake, I., see Saint-Martin, H. (1080) 205
Orth, K., see DeMartino, G.N. (1079) 29
Orunesu, M., see Cesarone, C.F. (1087) 241
Osaka, F., see Tamura, T. (1089) 95
Osborne, M., see Man, N. (1076) 245
Osei, A.A., Everett, G.W., Ringel, I. and Himes, R.H.
The interaction of [^{13}C]-enriched colchicine with tubulin as determined by NMR spectroscopy (1078) 339
Oshry, L., Meers, P., Mealy, T. and Tauber, A.I.
Annexin-mediated membrane fusion of human neutrophil plasma membranes and phospholipid vesicles (1066) 239
Osmundsen, H., Bremer, J. and Pedersen, J.I.
Metabolic aspects of peroxisomal β-oxidation (1085) 141
Ostanevich, Y.M., see Gordeliy, V.I. (1061) 39
Osteaux, M., see De Bisschop, E. (1094) 147
Ostergaard, H.L., see Trowbridge, I.S. (1095) 46
Österlund, K., see Ellfolk, N. (1080) 68
Osterman, D.G., see Darnell, J.C. (1084) 269
Osterman, D.G., see Darnell, J.C. (1084) 279
Ostermann, E., see Adolf, G.R. (1089) 167
O'Sullivan, J.N., see Murphy, D.J. (1088) 86
Oswald, B.S., see Quarfordt, S.H. (1082) 247
Ota, M., see Kurokawa, R. (1095) 63
Otero, A., Bustelo, X.R. and Gómez-Márquez, J.
Cytochrome *c* oxidase subunit II mRNA levels during T-lymphocyte proliferation and liver regeneration (1092) 184
Otte, S.C.M., see Deinum, G. (1060) 125
Otto, A., see Goubran Botros, H. (1074) 69
Otto, D.A., Tsai, C.E., Baltzell, J.K. and Wooten, J.T.
Apparent inhibition of hepatic triacylglycerol secretion, independent of synthesis, in high-fat fish oil-fed rats: role for insulin (1082) 37
Otto, D.A., see Richards, E.W. (1076) 23
Ou, C., see Panagia, V. (1064) 242
Ouchi, Y., see Sato, F. (1091) 188
Ouhabi, R., Rigoulet, M., Lavie, J.-L. and Guérin, B.
Respiration in non-phosphorylating yeast mitochondria. Roles of non-ohmic proton conductance and intrinsic uncoupling (1060) 293
Ouldelhkim, M., see Lechner, M.C. (1087) 157
Ourisson, G., see Saar, J. (1075) 93
Out, M., see Wiemer, E.A.C. (1097) 232
Ouyang, C., see Huang, T.-F. (1074) 136
Ouyang, C., see Huang, T.-F. (1074) 144
Ovádi, J., see Vértessy, B.G. (1078) 236
Owen, T.J., see McLean, L.R. (1086) 106
Owens, D., Collins, P., Johnson, A., Tighe, O., Robinson, K. and Tomkin, G.H.
Hypercholesterolaemia: simvastatin and pravastatin alter cholesterol metabolism by different mechanisms (1082) 303
Oyama, M. and Kubota, K.
Inhibition by EDTA and enhancement by divalent cations or polyamines of the dithiothreitol-induced activation of adenylate cyclase in the cellular slime mold, *Dictyostelium discoideum* (1092) 85
Ozaki, S., see Kimura, Y. (1069) 218
Ozawa, T., see Ohno, K. (1090) 9
Özden, M.Y. and Hasirci, V.N.
Preparation and characterization of polymer coated small unilamellar vesicles (1075) 102
Ozoline, O.N., Uteshev, T.A. and Kamzolova, S.G.
Specific modification of *Escherichia coli* RNA polymerase with monomercury derivative of fluoresceinacetate (1076) 387

P

Pace-Asciak, C.R., see Laneuville, O. (1084) 60
Pacheco, Y., see Chabannes, B. (1093) 47
Paciga, J.E., see Shelley, S.A. (1096) 338
Pacuszka, T. and Fishman, P.H.
Metabolism of cholesterol, phosphatidylethanolamine and stearylamine analogues of G_{M1} ganglioside by rat glioma C6 cells (1083) 153
Padhye, N.V., Naziruddin, B., Desai, V.C., De la Rocha, S.R. and Sachdev, G.P.
Physicochemical characterization of a minor mucin component from cystic fibrosis tracheobronchial secretions (1077) 332
Padoin, E., see Doni, M.G. (1094) 323
Pagani, R., Ponticelli, F., Terzuoli, L., Leoncini, R. and Marinello, E.
The inhibition of rat liver threonine dehydratase by carbamoylphosphate The formation of carbamoylpyridoxal 5′-phosphate (1077) 233
Pagani, R., see Portolés, M.T. (1092) 1
Pagano, R.E., see Koval, M. (1082) 113
Paiement, J., see Lavoie, C. (1070) 274
Pailes, W.H., see Rabovsky, J. (1095) 223
Pain, R.H., see Varley, P.G. (1077) 19
Paiva, A.C.M., see Araujo, G.W. (1074) 167
Palacios-Araus, L., see Palés, J. (1064) 169
Palés, J., Palacios-Araus, L., López, A. and Gual, A.
Effects of dihydropyridines and inorganic calcium blockers on aggregation and on intracellular free calcium in platelets (1064) 169
Palmblad, J., see Westlund, P. (1081) 301
Palme, K., see Felle, H. (1064) 199
Palmer, F.B.S.C., see George, T.P. (1084) 185
Palmer, T., see Strassheim, D. (1096) 121
Palmer, T.M. and Houslay, M.D.
Determination of G-protein levels, ADP-ribosylation by cholera and pertussis toxins and the regulation of adenylyl cyclase activity in liver plasma membranes from lean and genetically diabetic (*db/db*) mice (1097) 193
Palmieri, F., see De Pinto, V. (1061) 279
Palmieri, F., see Indiveri, C. (1065) 231
Palmieri, F., see Indiveri, C. (1069) 110
Paloheimo, M., see Aho, S. (1087) 137
Palou, A., see Serra, F. (1097) 289
Paltauf, F., see Lafer, G. (1069) 139
Paltauf, F., see Lohner, K. (1061) 132
Paltauf, F., see Szolderits, G. (1063) 197
Paltauf, F., see Yin, C.-C. (1070) 33
Palumbo, A., D'Ischia, M., Misuraca, G. and Prota, G.
Mechanism of inhibition of melanogenesis by hydroquinone (1073) 85

Pan, R.S., see Allnutt, F.C.T. (1059) 28
Pan, R.S., see Renganathan, M. (1059) 16
Panagia, V., Ou, C., Taira, Y., Dai, J. and Dhalla, N.S.
Phospholipase D activity in subcellular membranes of rat ventricular myocardium (1064) 242
Panayotova-Heiermann, M., see Morrison, A.I. (1089) 121
Panchenko, M.P., see Nupenko, E.V. (1091) 213
Pandey, S. and Parnaik, V.K.
Identification and characterization of nuclear location signal-binding proteins in nuclear envelopes (1063) 81
Pandol, S.J., see Perkins, P.S. (1092) 145
Pandya, K.I., see Lommen, A. (1076) 439
Panigrahi, D., see Khurana, S. (1097) 171
Pannell, L.K., see Holbrook, P.G. (1084) 155
Panus, P.C., Burgess, B. and Freeman, B.A.
Characterization of cultured alveolar epithelial cell xanthine dehydrogenase/oxidase (1091) 303
Papa, S., see Guerrieri, F. (1059) 348
Papaconstantinou, J., see Carter, K.C. (1089) 197
Papageorgiou, A.C., see Leonidas, D.D. (1076) 305
Papageorgiou, G.C., Fujimura, Y. and Murata, N.
Protection of the oxygen-evolving Photosystem II complex by glycinebetaine (1057) 361
Papahadjopoulos, D., see Chernomordik, L.V. (1070) 193
Papahadjopoulos, D., see Huang, S.K. (1069) 117
Papahadjopoulos, D., see Lasic, D.D. (1070) 187
Papayannopoulos, I.A., see Chen, C.S. (1075) 237
Pape, M.E., Castle, C.K., Murray, R.W., Funk, G.M., Hunt, C.E., Marotti, K.R. and Melchior, G.W.
Apo B metabolism in the cynomolgus monkey: evidence for post-transcriptional regulation (1086) 326
Paradies, G., Ruggiero, F.M. and Dinoi, P.
The influence of hypothyroidism on the transport of phosphate and on the lipid composition in rat-liver mitochondria (1070) 180
Parenti, P., Giordana, B. and Hanozet, G.M.
In vitro effect of ethanol on sodium and glucose transport in rabbit renal brush border membrane vesicles (1070) 92
Parikh, I., see Amarant, T. (1079) 214
Parish, C.R., Jakobsen, K.B., Coombe, D.R. and Bacic, A.
Isolation and characterization of cell adhesion molecules from the marine sponge, *Ophlitaspongia tenuis* (1073) 56
Parisi, M., see Capurro, C. (1065) 1
Parivar, F., see Kanamori, K. (1096) 270
Park, M.H., see Abbruzzese, A. (1077) 159
Park, M.H., see Chung, S.I. (1076) 448
Parker, C.J., see Bohnsack, J.F. (1079) 222
Parker, G.F., see Williams, P.J. (1075) 146
Parker, J., see Ulrich, A.K. (1089) 362
Parker, J.C., see Sarkadi, B. (1071) 407
Parker, P.J., see Meldrum, E. (1092) 49
Parkes-Loach, P.S., see Van Mourik, F. (1059) 111
Parks, L.W., see Casey, W.M. (1081) 279
Parnaik, V.K., see Pandey, S. (1063) 81
Parola, M., see Albano, E. (1091) 310
Parot, P., see Sebban, P. (1057) 109
Parrett, K.G., see Mehari, T. (1056) 139
Parrillo, J.E., see Barron, J.T. (1093) 125
Parson, W.W., see Becker, M. (1057) 299
Parthasarathy, S., see Quinn, M.T. (1082) 293
Pasechnikov, V.D., Radsev, Y.A. and Guminskij, S.P.
5-Lipoxygenase products: their biosynthesis in human gastric mucosa and possible involvement in inflammatory response and oxygen saturation index reduction in gastric ulcer patients (1097) 45
Passow, H., see Kietz, D. (1064) 81
Pastan, I., see Horio, M. (1061) 106
Pasternak, C.A., see Alder, G.M. (1061) 111
Pastor-Anglada, M., see Soler, C. (1091) 193
Pataryas, T.A., see Sourlingas, T.G. (1092) 298
Patchett, M.L., Daniel, R.M. and Morgan, H.W.
Characterisation of arginase from the extreme thermophile '*Bacillus caldovelox*' (1077) 291
Patel, B., Gove, C.D., Hutchinson, W.L. and Mowbray, J.
Substantial quantities of the high energy derivative oligophosphoglyceroyl-ATP are located in mitochondria in rat liver (1074) 178
Paterson, A.R.P., see Jhun, B.H. (1061) 149
Paterson, K.R., see Livingstone, C. (1096) 127
Patzelt, E., see Adolf, G.R. (1089) 167
Paudel, H.K., Yu, L. and Yu, C.-A.
Involvement of a histidine residue in the interaction between membrane-anchoring protein (QPs) and succinate dehydrogenase in mitochondrial succinate-ubiquinone reductase (1056) 159
Paul, J., Smith, M.L. and Paul, K.G.
Fast heme release from inactive proteins (1079) 330
Paul, K.G., see Paul, J. (1079) 330
Pauli, A.-M., see Grataroli, R. (1082) 130
Paulmichl, M., see Lang, F. (1073) 600
Paulmichl, M., see Weiss, H. (1069) 165
Pauls, K.P., see Deslauriers, C. (1091) 165
Pauly, J.-P., see Feller, G. (1079) 343
Pauly, S., see Kretschmann, H. (1059) 208
Pavan, A., see Dini, L. (1062) 108
Pavlič, M.R., see Stojan, J. (1079) 96
Pawlak, M., Stankowski, S. and Schwarz, G.
Melittin induced voltage-dependent conductance in DOPC lipid bilayers (1062) 94
Pawlak, M., see Stankowski, S. (1069) 77
Payan, F., see Desseaux, V. (1080) 237
Paye, M., Nusgens, B. and Lapière, C.M.
Factor XIII of blood coagulation decreases the susceptibility of collagen precursors to proteolysis (1073) 437
Payne, M.H., see McLean, L.R. (1086) 106
Payne, R.M., Haas, R.C. and Strauss, A.W.
Structural characterization and tissue-specific expression of the mRNAs encoding isoenzymes from two rat mitochondrial creatine kinase genes (1089) 352
Payne, W.J., see Denariaz, G. (1056) 225
Payrastre, B., Plantavid, M. and Chap, H.
Stimulation by epidermal growth factor of inositol phosphate production in plasma membranes from A431 cells (1056) 19
Peach, R.J. and Brennan, S.O.
Structural characterization of a glycoprotein variant of human serum albumin: albumin Casebrook (494 Asp → Asn) (1097) 49
Peacock, M.A., see Smith, M.W. (1093) 144
Peak, M., see Agius, L. (1095) 243
Pearson, C.E., Frappier, L. and Zannis-Hadjopoulos, M.
Plasmids bearing mammalian DNA-replication origin-enriched (*ors*) fragments initiate semiconservative replication in a cell-free system (1090) 156
Pearson, J.A., Tyler, M.I., Retson, K.V. and Howden, M.E.H.
Studies on the subunit structure of textilotoxin, a potent presynaptic neurotoxin from the venom of the Australian common brown snake (*Pseudonaja textilis*). 2. The amino acid sequence and toxicity studies of subunit D (1077) 147
Pearson, R.B., see Kemp, B.E. (1094) 67
Pecar, S., see Sentjurc, M. (1073) 329
Pedersen, J.I., see Osmundsen, H. (1085) 141
Pedersen, S.B., Børglum, J.D., Eriksen, E.F. and Richelsen, B.
Nuclear estradiol binding in rat adipocytes. Regional variations and regulatory influences of hormones (1093) 80
Pedone, F. and Bonincontro, A.
Temperature dependence of DNA dielectric dispersion at radiofrequency (1073) 580
Pedrini, A.M., see Fronza, G. (1087) 330

Pedroso de Lima, M.C., Nir, S., Flasher, D., Klappe, K., Hoekstra, D. and Düzgüneş, N.
Fusion of Sendai virus with human HL-60 and CEM cells: different kinetics of fusion for two isolates (1070) 446
Peeters-Joris, C., see Lefebvre, V. (1094) 8
Peeters, R.A., see Veerkamp, J.H. (1081) 1
Pegg, M.S., see Chong, A.K.J. (1077) 65
Pein, C.-D., see Kubareva, E.A. (1088) 395
Pelech, S.L., see Daya-Makin, M. (1093) 87
Pelech, S.L., see Sanghera, J.S. (1095) 153
Pellegrino, J.M., Roma, M.G., Mottino, A.D. and Rodríguez Garay, E.A.
Hepatic handling of photoirradiated bilirubin. A study in isolated perfused Wistar rat liver (1074) 25
Peloquin, J.M., Bylina, E.J., Youvan, D.C. and Bocian, D.F.
Effects of pigment–protein interactions on the conformation of the primary electron acceptor in *Rhodobacter capsulatus* reaction centers (1056) 85
Peltomäki, P.
DNA methylation changes in human testicular cancer (1096) 187
Peña, A. and Ramírez, J.
An energy-dependent efflux system for potassium ions in yeast (1068) 237
Penhallow, J., see Eggleton, P. (1094) 309
Penin, F., see Gagliardi, D. (1059) 323
Pennings, A., see Van den Bogert, C. (1097) 87
Penniston, J.T., see Caride, A.J. (1069) 94
Penniston, J.T., see Magocsi, M. (1063) 7
Penniston, J.T., see Magocsi, M. (1070) 163
Pentchev, P.G., see Argoff, C.E. (1096) 319
Pentchev, P.G., see Vanier, M.T. (1096) 328
Pepin, D., see Ribeiro, A. (1086) 279
Pepin, D., see Ribeiro, A. (1087) 219
Percy, A., see Percy, P. (1084) 173
Percy, A.K., see Gottfries, J. (1081) 253
Percy, P., Vilbergsson, G., Percy, A., Månsson, J.-E., Wennergren, M. and Svennerholm, L.
The fatty acid composition of placenta in intrauterine growth retardation (1084) 173
Pereira da Silva, L., see Antonio, R.V. (1056) 250
Peres, A., Racca, C., Bertollini, L. and Sturani, E.
Cytosolic calcium responses induced by photolytic release of 1,4,5-inositol trisphosphate in single human fibroblasts (1092) 89
Perez, C., see Kuruvilla, A.K. (1094) 300
Perez, G., see Hall, K. (1077) 173
Pérez Barriocanal, F., see Marín, J.J.G. (1061) 9
Pérez-Albarsanz, M.A., López-Aparicio, P., Senar, S. and Recio, M.N.
Effects of lindane on fluidity and lipid composition in rat renal cortex membranes (1066) 124
Perides, G., Biviano, F. and Bignami, A.
Interaction of a brain extracellular matrix protein with hyaluronic acid (1075) 248
Perin, A., see Sessa, A. (1074) 31
Periyasamy, S., see Askari, A. (1069) 127
Perkins, P.S., Bahrami, L.H., Lenhard, L.W. and Pandol, S.J.
Intracellular mechanisms involved in short-term regulation of net protein synthesis in pancreatic acini (1092) 145
Perlin, D.S., see Serrano, R. (1062) 157
Perly, B., see Tabony, J. (1063) 67
Permyakov, E.A., Medvedkin, V.N., Mitin, Y.V. and Kretsinger, R.H.
Noncovalent complex between domain AB and domains CDEF of parvalbumin (1076) 67
Pernas, P., see Ribeiro, A. (1087) 219
Pernollet, J.-C., see Martinat, N. (1077) 339
Perrella, F.W., Jankewicz, R. and Dandrow, E.A.
Phospholipase C from human melanoma: purification and characterization of a phosphatidylinositol-selective enzyme (1076) 209
Perret, B.-P., see Collet, X. (1081) 211
Perret, B.P., see Marques-Vidal, P. (1082) 185
Perret, C., see Broyart, J.-P. (1087) 61
Perrin-Fayolle, M., see Chabannes, B. (1093) 47
Perrino, F.W., see Bobst, E.V. (1078) 199
Persaud, S.J., Jones, P.M. and Howell, S.L.
Activation of protein kinase C is essential for sustained insulin secretion in response to cholinergic stimulation (1091) 120
Persaud, S.J., Jones, P.M. and Howell, S.L.
Activation of protein kinase C is not required for glyceraldehyde-stimulated insulin secretion from rat islets (1095) 183
Perschel, F.H., see Bühler, H. (1075) 206
Persson, J., see Lindström, M.B. (1084) 194
Persson, L., see Stjernborg, L. (1090) 188
Pescarmona, G., see Heller, R. (1093) 55
Pesquero, J.B., see Araujo, G.W. (1074) 167
Pesquero, J.L., see Araujo, G.W. (1074) 167
Pestonjamasp, K.N. and Mehta, N.G.
Relationship between the concanavalin A-agglutinability and deformability of human erythrocytes (1073) 341
Petcu, I., Lupu, M. and Grosescu, R.
In vivo tritium contamination effects on water exchange across the erythrocyte membranes: a nuclear magnetic resonance study (1065) 99
Peters, R., see George, S.K. (1066) 131
Peters, R., see Sauer, H. (1063) 137
Peters, W., see Felle, H. (1064) 199
Petersen, E.M., see Van Weely, S. (1096) 301
Petersen, O.H., see Dunne, M.J. (1071) 67
Peterson, J., Fee, J.A. and Day, E.P.
Magnetization of manganese superoxide dismutase from *Thermus thermophilus* (1079) 161
Peterson, J.W., Reitmeyer, J.C., Jackson, C.A. and Ansari, G.A.S.
Protein synthesis is required for cholera toxin-induced stimulation of arachidonic acid metabolism (1092) 79
Peterson, J.W., see Chopra, A.K. (1090) 351
Peterson, R.P., Benz, S.K., Whyte, B.S. and Hartsel, S.C.
A kinetic method for measuring functional delivery of amphotericin B by drug delivery systems (1064) 165
Petridou-Fischer, J., see Compadre, C.M. (1079) 43
Petrov, V.V., see Timonin, I.M. (1066) 43
Petrovskis, E.A., see Meyer, A.L. (1090) 267
Petrussa, E., see Vianello, A. (1060) 299
Petruzzelli, R., Barra, D., Bossa, F., Condò, S.G., Brix, O., Nuutinen, M. and Giardina, B.
The primary structure of hemoglobin from reindeer (*Rangifer tarandus tarandus*) and its functional implications (1076) 221
Pettigrew, G.W., see Gilmour, R. (1059) 233
Pettigrew, G.W.
The cytochrome *c* peroxidase of *Paracoccus denitrificans* (1058) 25
Petty, H.R., Zhou, M.-j. and Zheng, Z.
Oxidative damage by phenylhydrazine diminishes erythrocyte anion transport (1064) 308
Pfeiffer, D.R., see Igbavboa, U. (1059) 339
Pfeilschifter, J., see Lang, F. (1073) 600
Pfister, E., Klöck, G. and Zimmermann, U.
Selection of hybrid plants obtained by electrofusion of vacuolated × evacuolated plant protoplasts in hypo-osmolar solution (1062) 13
Pfleger, B.A., see Srivastava, R.A.K. (1086) 29
Pfleger, B.A., see Srivastava, R.A.K. (1090) 95
Pfleiderer, G., see Hilt, W. (1076) 298

Phelan, A.M. and Lange, D.G.
Ischemia/reperfusion-induced changes in membrane fluidity characteristics of brain capillary endothelial cells and its prevention by liposomal-incorporated superoxide dismutase (1067) 97
Philipson, K.D., see Bersohn, M.M. (1062) 19
Phillips, M.C., see Ibdah, J.A. (1081) 220
Phillips, M.C., see Johnson, W.J. (1085) 273
Phillips, R.E.
Molecular interactions between HIV and the T lymphocyte (1096) 10
Phoenix, J., Edwards, R.H.T. and Jackson, M.J.
The effect of vitamin E analogues and long hydrocarbon chain compounds on calcium-induced muscle damage. A novel role for α-tocopherol? (1097) 212
Piau, J.-P., see Yannoukakos, D. (1061) 253
Piccolella, E., see Miccheli, A. (1093) 29
Piccolella, E., see Miccheli, A. (1095) 90
Piccolomini, R., see Di Ilio, C. (1077) 141
Picher, M., see Côté, Y.P. (1078) 187
Pick, U., see Bental, M. (1092) 21
Pidgeon, C., see Thurnhofer, H. (1064) 275
Pieper, U., Ehbrecht, H.-J., Fliess, A., Schick, B., Jurnak, F. and Pingoud, A.
Genetic engineering, isolation and characterization of a truncated *Escherichia coli* elongation factor Tu comprising domains 2 and 3 (1087) 147
Pierce, G.N., see Tuana, B.S. (1091) 236
Pikuła, S., see Pilarska, M. (1068) 167
Pikuła, S., see Szymańska, G. (1083) 265
Pikuła, S., Wrzosek, A. and Famulski, K.S.
Long-term stabilization and crystallization of $(Ca^{2+} + Mg^{2+})$-ATPase of detergent-solubilized erythrocyte plasma membrane (1061) 206
Pilař, J., see Metlička, R. (1069) 175
Pilarska, M., Wrzosek, A., Pikuła, S. and Famulski, K.S.
Thyroid hormones control lipid composition and membrane fluidity of skeletal muscle sarcolemma (1068) 167
Pilatus, U. and Techel, D.
^{31}P-NMR-studies on intracellular pH and metabolite concentrations in relation to the circadian rhythm, temperature and nutrition in *Neurospora crassa* (1091) 349
Pinches, R.A., see Kirk, K. (1061) 305
Pincus, M.R., Dykes, D.C., Carty, R.P. and Miller, J.L.
Conformational energy analysis of the substitution of Val for Gly 233 in a functional region of platelet GPIbα in platelet-type von Willebrand disease (1097) 133
Pineda, J., see Murdock, G.L. (1076) 197
Pineda, M., see Alamillo, J.M. (1076) 203
Piñeiro, A., see Iturralde, M. (1086) 81
Pingoud, A., see Pieper, U. (1087) 147
Pink, D.A., Farrell, K., MacNeil, G. and Sackmann, E.
Line defects in gel phase lipid monolayers (1065) 167
Pinna, L.A., see Brunati, A.M. (1091) 123
Pinna, L.A., see Donella-Deana, A. (1094) 130
Pinna, L.A., see Donella-Deana, A. (1095) 75
Pinna, L.A., see Leader, D.P. (1091) 426
Pintado, E., see Martín, F. (1091) 110
Pinto, M.C., see Macías, P. (1082) 310
Piomelli, S., see Murakami, K. (1080) 83
Piontek, K., see Boldyreff, B. (1088) 439
Pirskanen, A., see Mahonen, A. (1088) 111
Pisarchick, M.L., see Timbs, M.M. (1064) 219
Pisoni, R.L. and Thoene, J.G.
The transport systems of mammalian lysosomes (1071) 351
Pistevos, A.C., see Samouilidou, E.C. (1070) 343
Pittman, S.J., see Erdmann, A. (1061) 85
Pivarnik, P.E., see Turcotte, J.G. (1084) 1
Pizzo, S.V., see Uhing, R.J. (1093) 115
Placezk, D., see Williams, M.L. (1096) 162
Plachy, W.Z., see Smotkin, E.S. (1061) 33
Plagemann, P.G.W.
Mycoplasma contamination greatly enhances the apparent transport and concentrative accumulation of formycin B by mammalian cell culture (1064) 162
Plagemann, P.G.W., see Woffendin, C. (1090) 81
Planta, R.J., see Kraakman, L.S. (1090) 204
Plantavid, M., see Payrastre, B. (1056) 19
Plattner, H.J., see Siegmund, K.-D. (1076) 123
Plesner, I.W., see Plesner, L. (1076) 421
Plesner, L., Juul, B., Skriver, E. and Aalkjær, C.
Characterisation of Ca^{2+} or Mg^{2+}-dependent nucleoside triphosphatase from rat mesenteric small arteries (1067) 191
Plesner, L. and Plesner, I.W.
Kinetics of oligomycin inhibition and activation of Na^+/K^+-ATPase (1076) 421
Plesner, L., see Juul, B. (1067) 201
Plessow, S., Köster, M. and Knöchel, W.
cDNA sequence of *Xenopus laevis* bone morphogenetic protein 2 (BMP-2) (1089) 280
Plisov, S.Y., Merkulova, T.I. and Seledtsov, I.A.
Glucocorticoid-receptor binding sites at the 5′ flanking region of a rat cytochrome *CYP2B2* gene predicted with a novel computer method (1095) 114
Plumbridge, J.A., see Altamirano, M.M. (1076) 266
Poglitsch, C.L., see Timbs, M.M. (1064) 219
Poile, T.W., see Sanders, J.C. (1066) 102
Poirée, J.C., see Gérardi-Laffin, C. (1063) 21
Poirier, G.G., see Desmarais, Y. (1078) 179
Poisson, J.-P., see Mimouni, V. (1086) 349
Poisson, J.-P., see Ulmann, L. (1086) 230
Pollard, H.B., see Heldman, E. (1091) 417
Poloczek, P., see Winand, J. (1080) 181
Pometta, D., see Borghini, I. (1083) 139
Poncet, V., see Merot, J. (1070) 387
Ponticelli, F., see Pagani, R. (1077) 233
Pontremoli, R., see Salamino, F. (1096) 265
Pontremoli, S., see Salamino, F. (1096) 265
Poole, R.C., Cranmer, S.L., Holdup, D.W. and Halestrap, A.P.
Inhibition of L-lactate transport and band 3-mediated anion transport in erythrocytes by the novel stilbenedisulphonate *N,N,N′,N′*-tetrabenzyl-4,4′-diaminostilbene-2,2′-disulphonate (TBenzDS) (1070) 69
Poole, R.K., see Bonner, F.T. (1056) 133
Pop, V.I., see Benga, G. (1061) 309
Pope, A.J., Richardson, S.K., Ife, R.J. and Keeling, D.J.
Characterisation of the effects of anthranilic and (indanyloxy)acetic acid derivatives on chloride transport in membrane vesicles (1067) 51
Popescu, O., see Benga, G. (1061) 309
Popov, S.V., Svitkina, T.M., Margolis, L.B. and Tsong, T.Y.
Mechanism of cell protrusion formation in electrical field: the role of actin (1066) 151
Poppers, D.M., see Dilger, J.P. (1063) 253
Poralla, K., see Saar, J. (1075) 93
Pörn, M.I., Tenhunen, J. and Slotte, J.P.
Increased steroid hormone secretion in mouse Leydig tumor cells after induction of cholesterol translocation by sphingomyelin degradation (1093) 7
Porpaczy, Z., see Sumegi, B. (1081) 121
Porschke, D., see Thürk, M. (1067) 153
Porteu, A., see Broyart, J.-P. (1087) 61
Portis, Jr., A.R., see Wang, Z.-Y. (1079) 263

Portolés, M.T., Ainaga, M.J., Municio, A.M. and Pagani, R.
Intracellular calcium and pH alterations induced by *Escherichia coli* endotoxin in rat hepatocytes (1092) 1
Portugal, H., see Grataroli, R. (1082) 130
Poser, B., see Deuticke, B. (1067) 111
Possmayer, F., see Cockshutt, A.M. (1085) 248
Possmayer, F., see Cockshutt, A.M. (1086) 63
Possmayer, F., see Veldhuizen, R.A.W. (1083) 211
Post, A.F., Mimuro, M. and Fujita, Y.
Light 2 directed changes in the effective absorption cross-section of Photosystem II in *Synechocystis* 27170 are related to modified action on the donor side of the reaction center (1060) 67
Post, D.J., see Carter, K.C. (1089) 197
Post, J.A., see Musters, R.J.P. (1091) 270
Post, L.E., see Meyer, A.L. (1090) 267
Postel, M., Chang, P., Rolland, J.-P., Krafft, M.-P. and Riess, J.G.
Fluorocarbon/lecithin emulsions: identification of EYP-coated fluorocarbon droplets and fluorocarbon-empty vesicles by freeze-fracture electron microscopy (1086) 95
Potempa, J., see Kołoczek, H. (1073) 619
Potier, M., see Côté, Y.P. (1078) 187
Poujeol, P., see Merot, J. (1070) 387
Poulos, A., see Klucis, E. (1074) 294
Poulsen, S.S., see Jørgensen, P.E. (1074) 284
Poussard, S., see Cottin, P. (1079) 139
Poveda, B., see Soler, C. (1091) 193
Powell, A.D., see Deslauriers, C. (1091) 165
Powell, W.S., see Wang, T. (1084) 129
Poyart, C., see Leclerc, L. (1062) 35
Poyart, C., see Wajcman, H. (1096) 60
Prabhananda, B.S. and Ugrankar, M.M.
Nigericin-mediated H^+, K^+ and Na^+ transports across vesicular membrane: *T*-jump studies (1070) 481
Pradayrol, L., see Tani, T. (1095) 249
Pradelles, P., see Antoine, C. (1075) 162
Prager, G., see Kraupp, M. (1070) 157
Prakash, A.S., see Wickham, G. (1073) 528
Prangishvili, D.A., see Melikyan, G.B. (1068) 245
Prasad, R., see Chopra, A.K. (1090) 351
Pratap, P.R., Robinson, J.D. and Steinberg, M.I.
The reaction sequence of the Na^+/K^+-ATPase: rapid kinetic measurements distinguish between alternative schemes (1069) 288
Pratap, P.R., see Robinson, J.D. (1061) 267
Pratap, P.R., see Robinson, J.D. (1069) 281
Pratsch, L., see George, S.K. (1066) 131
Pratsch, L., see Sauer, H. (1063) 137
Pratt, K.L., see Green, T.R. (1073) 91
Preis, D., Weidner, U., Conzen, C., Azevedo, J.E., Nehls, U., Röhlen, D., Van der Pas, J., Sackmann, U., Schneider, R., Werner, S. and Weiss, H.
Primary structures of two subunits of NADH: ubiquinone reductase from *Neurospora crassa* concerned with NADH-oxidation. Relationship to a soluble NAD-reducing hydrogenase of *Alcaligenes eutrophus* (1090) 133
Preis, D., see Nehls, U. (1088) 325
Prezioso, G., see Indiveri, C. (1065) 231
Prezioso, G., see Scalera, V. (1062) 187
Price, G., see Bell, D. (1089) 299
Price, N.T., see Bommer, U.-A. (1079) 308
Price, P.A., see Engelke, J.A. (1078) 31
Printen, J., see Bulva, C.J. (1094) 134
Prodanov, E., see Rubbo, H. (1074) 386
Prohaska, R., see Hiebl-Dirschmied, C.M. (1065) 195
Prohaska, R., see Hiebl-Dirschmied, C.M. (1090) 123
Prokazova, N.V., see Mikhailenko, I.A. (1085) 299
Proksch, E., Elias, P.M. and Feingold, K.R.
Localization and regulation of epidermal 3-hydroxy-3-methylglutaryl-coenzyme A reductase activity by barrier requirements (1083) 71
Prota, G., see D'Ischia, M. (1073) 423
Prota, G., see Napolitano, A. (1073) 416
Prota, G., see Palumbo, A. (1073) 85
Protas, O.V., see Gusakov, A.V. (1073) 481
Protasevich, I.I., see Makarov, A.A. (1078) 283
Proud, C.G., see Bommer, U.-A. (1079) 308
Proud, C.G., see Redpath, N.T. (1093) 36
Proulx, P.
Structure-function relationships in intestinal brush border membranes (1071) 255
Pruijn, G.J.M., see Coenjaerts, F.E.J. (1090) 61
Przybycien, T.M. and Bailey, J.E.
Secondary structure perturbations in salt-induced protein precipitates (1076) 103
Pueyo, J.J. and Gómez-Moreno, C.
Characterization of the cross-linked complex formed between ferredoxin-$NADP^+$ reductase and flavodoxin from *Anabaena* PCC 7119 (1059) 149
Pugazhenthi, S., Khandelwal, R.L. and Angel, J.F.
Insulin-like effect of vanadate on malic enzyme and glucose-6-phosphate dehydrogenase activities in streptozotocin-induced diabetic rat liver (1083) 310
Pujol, J.-P., see Redini, F. (1093) 196
Pulido, D., see Barbacid, M. (1072) 115
Pullman, A., see Wang, J. (1070) 493
Pumm, R., see Goldenberg, H. (1067) 145
Puntarulo, S. and Cederbaum, A.I.
Inhibition of the oxidation of hydroxyl radical scavenging agents after alkaline phosphatase treatment of rat liver microsomes (1074) 12
Puntarulo, S., Galleano, M., Sanchez, R.A. and Boveris, A.
Superoxide anion and hydrogen peroxide metabolism in soybean embryonic axes during germination (1074) 277
Purves, F.C., see Leader, D.P. (1091) 426
Püschel, B., see Weber, W.-M. (1063) 73
Pye, H.T., see Argoff, C.E. (1096) 319
Pyerin, W., see Wiemann, S. (1089) 254

Q

Qasba, P.K., see Masibay, A.S. (1090) 230
Qi, C., see Melin, T. (1075) 259
Qian, Z.M. and Morgan, E.H.
Effect of metabolic inhibitors on uptake of non-transferrin-bound iron by reticulocytes (1073) 456
Quamme, G., see Azzarolo, A.M. (1069) 70
Quamme, G.A., see Azzarolo, A.M. (1064) 229
Quarfordt, S.H., Oswald, B.S., Landis, B.A., DeFaria, E. and Yamaguchi, Y.
Rat plasma cholesterol after particulate triacylglycerol clearance (1082) 247
Quemard, A., see Lopez-Marin, L.M. (1086) 22
Quesada, P., Ciarcia, G., Faraone-Mennella, M.R., Malanga, M., Cardone, A. and Farina, B.
In vitro poly(ADPribosylation) of estrogen-induced proteins from the oviduct of the lizard *Podarcis s. sicula* Raf. (1079) 79

Quig, D.W., Arbeeny, C.M. and Zilversmit, D.B.
Effects of hyperlipidemias in hamsters on lipid transfer protein activity and unidirectional cholesteryl ester transfer in plasma (1083) 257
Quinn, M.T., Kondratenko, N. and Parthasarathy, S.
Analysis of the monocyte chemotactic response to lysophosphatidylcholine: role of lysophospholipase C (1082) 293
Quinn, P.J., see Sanderson, P.W. (1067) 43
Quinn, P.J., see Sutton, G.C. (1061) 235
Quinn, P.J., see Williams, W.P. (1062) 123
Quintanilha, A.T., see Gross, C.T. (1079) 153
Quiroga, C., see Imperial, S. (1077) 72

R

Rabinovich, A.L. and Ripatti, P.O.
On the conformational, physical properties and functions of polyunsaturated acyl chains (1085) 53
Rabinovich, Y.M. and Kreinin, M.O.
Evidence for non-uniform translation of individual polypeptides in rat liver mitochondria (1089) 193
Rabon, E., see Hall, K. (1077) 173
Rabovsky, J., Pailes, W.H., Judy, D.J. and Castranova, V.
Cytochrome *P*-450-dependent metabolism in alveolar type II epithelial cells: modulation by platelet-activating factor (1095) 223
Racca, C., see Peres, A. (1092) 89
Radau, B., see Shallan, M.A.-A.M. (1057) 64
Radda, G.K., see Dunn, J.F. (1096) 115
Radda, G.K., see Kilby, P.M. (1085) 257
Radda, G.K., see Syme, P.D. (1093) 234
Rademacher, T.W., see Williams, P.J. (1075) 146
Radhakrishnamurthy, B., see Srinivasan, S.R. (1081) 188
Radhakrishnamurthy, B., see Vijayagopal, P. (1092) 291
Radi, R., see Rubbo, H. (1074) 386
Radin, N.S., see Shukla, G.S. (1083) 101
Rådmark, O., see Wetterholm, A. (1080) 96
Radsev, Y.A., see Pasechnikov, V.D. (1097) 45
Radtke, K.-P., see Kiso, U. (1074) 74
Raeymaekers, L., see Verbist, J. (1063) 1
Rafter, J.E.M., Bates, T.E., Bell, J.D. and Iles, R.A.
Metabolites in the developing rat liver – a proton nuclear magnetic resonance spectroscopic study (1074) 263
Ragg, E., Scaglioni, L., Mondelli, R., Carelli, I., Casini, A. and Tortorella, S.
^{1}H-, ^{13}C-, ^{31}P-NMR studies and conformational analysis of $NADP^+$, NADPH coenzymes and of dimers from electrochemical reduction of $NADP^+$ (1076) 49
Ragg, E., Scaglioni, L., Mondelli, R., Carelli, V., Carelli, I., Casini, A., Finazzi-Agrò, A., Liberatore, F. and Tortorella, S.
^{1}H-NMR study and structure determination of 4,4- and 4,6-dimers from electrochemical reduction of $NADP^+$ (1076) 37
Rahamimoff, H., see Tessari, M. (1066) 208
Rahfeld, J., Schierhorn, M., Hartrodt, B., Neubert, K. and Heins, J.
Are diprotin A (Ile-Pro-Ile) and diprotin B (Val-Pro-Leu) inhibitors or substrates of dipeptidyl peptidase IV? (1076) 314
Rahim, A.T.M.A., Miyazaki, A., Morino, Y. and Horiuchi, S.
Biochemical demonstration of endocytosis and subsequent resecretion of high-density lipoprotein by rat peritoneal macrophages (1082) 195
Rahim, A.T.M.A., see Miyazaki, A. (1082) 143
Rahman, M.A. and Schaup, H.W.
Nuclease S1 mapping of 16S ribosomal RNA in ribosomes (1087) 212
Rajczy, P., see Balázs, A. (1077) 127
Ralph, R.K., see Darkin-Rattray, S.J. (1088) 285
Ralph, S., see Brunati, A.M. (1091) 123
Ramadoss, C.S., see Jyothirmayi, N. (1083) 193
Ramakrishna Kurup, C.K., see Om Kumar, R.V. (1078) 219
Raman, B., see Sundari, C.S. (1065) 35
Ramasarma, T., see Om Kumar, R.V. (1078) 219
Ramaschi, G., see Torti, M. (1070) 20
Raming, K., see Krieger, J. (1088) 277
Ramírez, J., see Peña, A. (1068) 237
Rana, A.P.S., Majumder, G.C., Misra, S. and Ghosh, A.
Lipid changes of goat sperm plasma membrane during epididymal maturation (1061) 185
Randall Loftus, J., see Harvey, S.R. (1078) 360
Ranostaj, S., see Verstappen, R. (1073) 366
Ransac, S., see Gargouri, Y. (1085) 322
Rao, K.E., see Beerman, T.A. (1090) 52
Rappaport, F., see Jahns, P. (1057) 313
Rapuano, B.E. and Bockman, R.S.
Tumor necrosis factor-α stimulates phosphatidylinositol breakdown by phospholipase C to coordinately increase the levels of diacylglycerol, free arachidonic acid and prostaglandins in an osteoblast (MC3T3-E1) cell line (1091) 374
Raskind, W., see Hromas, R. (1090) 241
Rasmussen, K.R., see Whelly, S.M. (1092) 218
Rastogi, N., see Cole, D.E.C. (1064) 287
Ratner, D.I., see DeSilver, D.A. (1089) 309
Rattigan, S., Appleby, G.J. and Clark, M.G.
Insulin-like action of catecholamines and Ca^{2+} to stimulate glucose transport and GLUT4 translocation in perfused rat heart (1094) 217
Raub, T.J., see Takakura, Y. (1070) 1
Raub, T.J., see Takakura, Y. (1070) 11
Rauh, S., see Almeida, M.R. (1097) 224
Raus, J.C.M., see Hoogenboom, H.R. (1096) 345
Rausch, T., see Verstappen, R. (1073) 366
Rausch, U., see Seitz, J. (1078) 139
Ravagnan, G., see Dini, L. (1062) 108
Raventós-Suárez, C., see Suárez, G. (1075) 12
Ray, P.D., see Kadrmas, E.F. (1074) 339
Raymond, F., Datta, H. and Moss, D.
Alkaline phosphatase isoforms in bile and serum and their generation from cells in vitro (1074) 217
Raynes, J.G., see Anderson, J.C. (1075) 187
Razavi, M., see Kraupp, M. (1070) 157
Reagan, Jr., J.W. and St. Clair, R.W.
In vivo clearance of low-density lipoproteins and β-very-low-density lipoproteins in normal and hypercholesterolemic White Carneau pigeons (1081) 202
Reale, A., see Caiafa, P. (1090) 38
Reboiras, M.D. and Marsh, D.
EPR studies on the influence of chainlength on the segmental motion of spin-labelled fatty acids in dimyristoylphosphatidylcholine bilayers (1063) 259
Reboud-Ravaux, M., see Vilain, A.-C. (1076) 401
Recio, M.N., see Pérez-Albarsanz, M.A. (1066) 124
Reckelhoff, J.F., see DeMartino, G.N. (1073) 299
Record, M., see Tercé, F. (1084) 69
Redden, P.R., see Huang, Y.-S. (1082) 319
Reddy, R., see Yuan, Y. (1089) 33
Redemann, C., see Allen, T.M. (1066) 29
Redgrave, T.G., see Mamo, J.C.L. (1081) 241
Redgrave, T.G., see Martins, I.J. (1081) 328

Redini, F., Daireaux, M., Mauviel, A., Galera, P., Loyau, G. and Pujol, J.-P.
Characterization of proteoglycans synthesized by rabbit articular chondrocytes in response to transforming growth factor-β (TGF-β) (1093) 196
Redl, B., see Haas, H. (1074) 392
Redl, B., see Schinkinger, M.F. (1073) 142
Redlinger, T.E., see Wullink, W. (1060) 97
Redmond, R.W., see Allen, M.T. (1075) 42
Redpath, N.T. and Proud, C.G.
Differing effects of the protein phosphatase inhibitors okadaic acid and microcystin on translation in reticulocyte lysates (1093) 36
Rees, D., see Noctor, G. (1057) 320
Rees, D., see Ruban, A.V. (1059) 355
Rees, G.D., Da Graca Nascimento, M., Jenta, T.R.J. and Robinson, B.H.
Reverse enzyme synthesis in microemulsion-based organo-gels (1073) 493
Rees, R.C., see Knight, C.R.L. (1096) 312
Reeves, J.P., see Lyu, R.-M. (1068) 97
Reglero, A., see Rodríguez-Aparicio, L.B. (1073) 431
Rehm, W.S., see Carrasquer, G. (1069) 181
Reichert, A., see Davies, D.E. (1084) 29
Reimann, F.M., Herold, G., Schneider, A. and Stange, E.F.
Compartmentalization of cholesterol metabolism and cellular growth in cultured intestinal crypt cells (1085) 315
Rein, H., see Jung, C. (1076) 130
Reinach, P.S., Holmberg, N. and Chiesa, R.
Identification of calmodulin-sensitive Ca^{2+}-transporting ATPase in the plasma membrane of bovine corneal epithelial cell (1068) 1
Reinach, P.S., Tarvin, J.T. and Hirsch, M.
Changes in cellular membrane and paracellular conductances by amphotericin B in the epithelium of the bullfrog cornea (1066) 115
Reinke, L.A., see Towner, R.A. (1096) 222
Reinke, M., Hoppe, U., Röder, T., Bestmann, H.-J., Mollenhauer, J. and Brune, K.
A monoclonal antibody against the sulfidopeptide leukotrienes LTC_4, LTD_4 and LTE_4 (1081) 274
Reis, M.D., Griesser, H. and Mak, T.W.
Antigen receptor genes in hemopoietic malignancies (1072) 177
Reiser, K.M., Crouch, E.C., Chang, K. and Williamson, J.R.
Lysyl oxidase-mediated crosslinking in granulation tissue collagen in two models of hyperglycemia (1097) 55
Reiss, N., see Zor, U. (1091) 385
Reitmeyer, J.C., see Peterson, J.W. (1092) 79
Renard, A., see Thiry, M. (1090) 345
Renganathan, M., Pan, R.S., Ewy, R.G., Theg, S.M., Allnutt, F.C.T. and Dilley, R.A.
Evidence that localized energy coupling in thylakoids can continue beyond the energetic threshold onset into steady illumination (1059) 16
Renganathan, M., see Allnutt, F.C.T. (1059) 28
Renkawitz, R., see Muller, M. (1088) 171
Renner, M.W., see Hamilton, C.L. (1074) 312
Rennie, M.J., see Hundal, H.S. (1092) 376
Rentsch, D., see Martinoia, E. (1062) 271
Reo, N.V., see Fujise, H. (1094) 51
Repin, V.S., see Fuki, I.V. (1086) 237
Reske, K., see Syha-Jedelhauser, J. (1089) 414
Reston, J.T., Gould-Fogerite, S. and Mannino, R.J.
Potentiation of DNA mediated gene transfer in NIH3T3 cells by activators of protein kinase C (1088) 270
Retson, K.V., see Pearson, J.A. (1077) 147
Retzel, E.F., see Woffendin, C. (1090) 81
Reubsaet, F.A.G., Veerkamp, J.H., Brückwilder, M.L.P., Trijbels, J.M.F., Hashimoto, T. and Monnens, L.A.H.
Immunochemical and biochemical studies of fatty acid oxidation in fibroblasts of Zellweger and X-linked adrenoleukodystrophy patients (1083) 305
Reuvekamp, R., see Taanman, J.-W. (1089) 283
Revill, J., see Dunning, A.M. (1096) 231
Revol, A., see Vanier, M.T. (1096) 328
Reyes, L. and Scopes, R.K.
Membrane-associated ATPase from *Zymomonas mobilis*; purification and characterization (1068) 174
Reyes-Vivas, H., see Chávez, E. (1070) 461
Reynolds, J.D., see Meddings, J.B. (1070) 43
Reynolds, J.J., see Ward, R.V. (1079) 242
Reynolds, R.A., Mahoney, S.G., McNamara, P.D. and Segal, S.
The influence of pH on cystine and dibasic amino acid transport by rat renal brushborder membrane vesicles (1074) 56
Rhee, S.G., see Ubom, G.A. (1077) 91
Rhoads, D.E., see Bellis, S.L. (1061) 89
Ribbes, G., see Tercé, F. (1084) 69
Ribeiro, A., Cardot, P., Benarous, R., Pernas, P., Pepin, D., Rybkine, T., Chambaz, J. and Bereziat, G.
Partial apolipoprotein E-β-galactosidase fusion protein expressed in *Escherichia coli* retains binding activity to the LDL(B/E) receptor (1087) 219
Ribeiro, A., Mangeney, M., Loriette, C., Thomas, G., Pepin, D., Janvier, B., Chambaz, J. and Bereziat, G.
Effect of simvastatin on the synthesis and secretion of lipoproteins in relation to the metabolism of cholesterol in cultured hepatocytes (1086) 279
Ricchelli, F., Jori, G., Gobbo, S. and Tronchin, M.
Liposomes as models to study the distribution of porphyrins in cell membranes (1065) 42
Ricciolini, R., see Miccheli, A. (1093) 29
Ricciolini, R., see Miccheli, A. (1095) 90
Rice, D.W., see Lilley, K.S. (1080) 191
Rich, N., see Nag, K. (1068) 157
Rich, P.R., see Moody, A.J. (1059) 189
Richards, E.W., Hamm, M.W. and Otto, D.A.
The effect of palmitoyl-CoA binding to albumin on the apparent kinetic behavior of carnitine palmitoyltransferase I (1076) 23
Richardson, C.D., see Yeagle, P.L. (1065) 49
Richardson, D.R. and Baker, E.
The release of iron and transferrin from the human melanoma cell (1091) 294
Richardson, D.R. and Baker, E.
The uptake of inorganic iron complexes by human melanoma cells (1093) 20
Richardson, S.K., see Pope, A.J. (1067) 51
Richelsen, B., see Pedersen, S.B. (1093) 80
Richiert, D.M., see Banerjee, A. (1076) 330
Richiert, D.M., see Banerjee, A. (1077) 56
Richter, C., see Kunz, B.C. (1063) 226
Richter, C., see Vergères, G. (1063) 235
Riess, J.G., see Postel, M. (1086) 95
Rigler, R., see MacKerell Jr., A.D. (1073) 357
Rigoulet, M., see Ouhabi, R. (1060) 293
Rikans, L.E., Moore, D.R. and Snowden, C.D.
Sex-dependent differences in the effects of aging on antioxidant defense mechanisms of rat liver (1074) 195
Riley, S.A., Warhurst, G., Crowe, P.T. and Turnberg, L.A.
Active hexose transport across cultured human Caco-2 cells: characterisation and influence of culture conditions (1066) 175
Rimet, O., Chauvet, M., Sarrazin, M. and Bourdeaux, M.
Conformational change induced by coenzyme binding to bovine liver dihydrofolate reductase: a spectrofluorimetric study (1076) 435
Ring, K., see Blöcher, D. (1065) 160

Ringel, I., see Osei, A.A. (1078) 339
Ringsdorf, H., see Davies, D.E. (1084) 29
Riou, N., see Le Rudulier, D. (1061) 197
Ripatti, P.O., see Rabinovich, A.L. (1085) 53
Ripoche, P., see Martial, S. (1090) 86
Ripoche, P., see Tacnet, F. (1063) 51
Riskin, A., see Barash, V. (1073) 161
Rispoli, M., see Caiafa, P. (1090) 38
Rist, R.J., see Naftalin, R.J. (1064) 37
Ristau, O. and Jung, C.
Binding sites of pyridine in cytochrome *P*-450cam (1078) 321
Ristau, O., see Jung, C. (1076) 130
Ritchie, G., see Azzarolo, A.M. (1064) 229
Ritchie, G., see Azzarolo, A.M. (1069) 70
Ritov, V.B. and Men'shikova, E.V.
2,2,4-Trimethylpentane induces Ca^{2+} release from the sarcoplasmic reticulum terminal cisterns (1067) 187
Ritter, M., see Lang, F. (1073) 600
Rivett, D.E., see Allen, A.K. (1074) 331
Rix-Matzen, H., see García-Moreno, M. (1080) 143
Rizzuto, R., Sandonà, D., Capaldi, R.A. and Bisson, R.
Characterization of a cDNA encoding subunit VI of cytochrome *c* oxidase from the slime mold *Dictyostelium discoideum* (1089) 386
Rizzuto, R., Sandonà, D., Capaldi, R.A. and Bisson, R.
Nucleotide sequence of a cDNA coding for the mitochondrial precursor protein of cytochrome *c* oxidase subunit IV from the slime mold *Dictyostelium discoideum* (1090) 125
Robberecht, P., see Gourlet, P. (1066) 245
Robbiati, F., see Sosio, M. (1089) 401
Robert, C.H., see Stankowski, S. (1069) 77
Roberts, B., see Singh, S.V. (1074) 363
Roberts, D.R., see Williams, P.J. (1075) 146
Roberts, G., Berberián, G. and Beaugé, L.
Some properties of the H-ATPase activity present in root plasmalemma of *Avena sativa* L. Two different enzymes or one enzyme with two ATP sites? (1064) 131
Roberts, J.K.M., see Chang, K. (1092) 29
Roberts, L.M., see Legname, G. (1090) 119
Robertson, K.A., see Banfield, D.K. (1089) 262
Robinson, B.H., see Rees, G.D. (1073) 493
Robinson, J.D. and Pratap, P.R.
Effects of choline on Na^+- and K^+-interactions with the Na^+/K^+-ATPase (1069) 281
Robinson, J.D. and Pratap, P.R.
Na^+/K^+-ATPase: modes of inhibition by Mg^{2+} (1061) 267
Robinson, J.D., see Pratap, P.R. (1069) 288
Robinson, K., see Owens, D. (1082) 303
Robinson, M. and Warne, T.R.
Sources of diradylglycerols generated during cell growth and phorbol ester stimulation in Madin-Darby canine kidney cells (1085) 63
Robles-Flores, M., Alcántara-Hernández, R. and García-Sáinz, J.A.
Differences in phorbol ester-induced decrease of the activity of protein kinase C isozymes in rat hepatocytes (1094) 77
Roche, O., see Trémolières, A. (1059) 286
Röder, T., see Reinke, M. (1081) 274
Rodgers, M.A.J., see Specht, K.G. (1070) 60
Rodríguez, R., see Monsalve, R.I. (1078) 265
Rodríguez Barbero, E., see Marín, J.J.G. (1061) 9
Rodriguez de Turco, E.B. and Spitzer, J.A.
Hepatic phosphatidylinositol kinase activity in continuously endotoxemic rats (1093) 216
Rodríguez Garay, E.A., see Pellegrino, J.M. (1074) 25
Rodríguez-Aparicio, L.B., Reglero, A., Martínez-Blanco, H. and Luengo, J.M.
Fluorometric determination of phenylacetyl-CoA ligase from *Pseudomonas putida*: A very sensitive assay for a newly described enzyme (1073) 431
Rodriguez-Lafrasse, C., see Vanier, M.T. (1096) 328
Rodríguez-López, J.N., Tudela, J., Varón, R. and García-Cánovas, F.
Kinetic study on the effect of pH on the melanin biosynthesis pathway (1076) 379
Roeder, T.L., see Britigan, B.E. (1075) 213
Roelofs, H.M.J., see Yap, S.H. (1091) 405
Roelofs, T.A., Gilbert, M., Shuvalov, V.A. and Holzwarth, A.R.
Picosecond fluorescence kinetics of the D_1-D_2-cyt-*b*-559 Photosystem II reaction center complex. Energy transfer and primary charge separation processes (1060) 237
Roelofsen, B., see Moll, G.N. (1062) 206
Roelofsen, B., see Simões, A.P. (1063) 45
Roelofsen, B., see Van der Grond, J. (1074) 189
Roepstorff, P., see Højrup, P. (1077) 220
Roesijadi, G., Vestling, M.M., Murphy, C.M., Klerks, P.L. and Fenselau, C.C.
Structure and time-dependent behavior of acetylated and non-acetylated forms of a molluscan metallothionein (1074) 230
Roesijadi, G., see Unger, M.E. (1074) 371
Roess, D.A., see Bulva, C.J. (1094) 134
Rogers, H.J., Allen, R.L., Hamilton, W.D.O. and Lonsdale, D.M.
Pollen specific cDNA clones from *Zea mays* (1089) 411
Roginsky, M.S., see Kalbag, S.S. (1094) 85
Rogler, G., Herold, G. and Stange, E.F.
HDL_3-retroendocytosis in cultured small intestinal crypt cells: a novel mechanism of cholesterol efflux (1095) 30
Rogozin, I.B., Solovyov, V.V. and Kolchanov, N.A.
Somatic hypermutagenesis in immunoglobulin genes. I. Correlation between somatic mutations and repeats. Somatic mutation properties and clonal selection (1089) 175
Röhlen, D., see Preis, D. (1090) 133
Röhlen, D.A., see Nehls, U. (1088) 325
Röhlen, D.A., see Van der Pas, J.C. (1089) 389
Rokolya, A., Bárány, M. and Bárány, K.
Modification of myosin light chain phosphorylation in sustained arterial muscle contraction by phorbol dibutyrate (1057) 276
Roldán, M., see Serrano, R. (1062) 157
Rolland, J.-P., see Postel, M. (1086) 95
Roma, M.G., see Pellegrino, J.M. (1074) 25
Romano, M., see Caruso, C. (1078) 273
Romarís, M., Heredia, A., Molist, A. and Bassols, A.
Differential effect of transforming growth factor β on proteoglycan synthesis in human embryonic lung fibroblasts (1093) 229
Rommi, W., see Uhl, J. (1097) 283
Ronchi, S., see Guerrieri, F. (1059) 348
Ronen, S.M., Rushkin, E. and Degani, H.
Lipid metabolism in T47D human breast cancer cells: ^{31}P and ^{13}C-NMR studies of choline and ethanolamine uptake (1095) 5
Rönnberg, M., see Ellfolk, N. (1080) 68
Rorsman, H., see Carstam, R. (1097) 152
Rorsman, P., see Ämmälä, C. (1092) 347
Rørtveit, T., see Christiansen, E.N. (1082) 57
Rosa, M., see Martinuzzi, A. (1095) 217
Rosengard, F., see Delrieu, M.J. (1057) 78
Rosengren, B., see Camejo, G. (1096) 253
Rosengren, E., see Carstam, R. (1097) 152
Rosenthal, M.D., Garcia, M.C., Jones, M.R. and Sprecher, H.
Retroconversion and Δ^4 desaturation of docosatetraenoate ($22:4(n-6)$) and docosapentaenoate ($22:5(n-3)$) by human cells in culture (1083) 29
Rosenthal, M.D., see Garcia, M.C. (1083) 37
Ross, B.D., see Kanamori, K. (1096) 270
Ross, M.E., see Harvey, S.R. (1078) 360
Ross, R.T., Lee, C.-H., Davis, C.M., Ezzeddine, B.M., Fayyad, E.A. and Leurgans, S.E.

Resolution of the fluorescence spectra of plant pigment-complexes using trilinear models (1056) 317
Rossi, J.P.F.C. and Caride, A.J.
Inhibition of the phosphatase activity of the red cell membrane Ca^{2+} pump by acidic phospholipids (1061) 49
Rossi, J.P.F.C., see Caride, A.J. (1069) 94
Rotenberg, M., Rubin, M., Bor, A., Meyuhas, D., Talmon, Y. and Lichtenberg, D.
Physico-chemical characterization of Intralipid ™ emulsions (1086) 265
Roth, K.S., see Wyss, P.A. (1070) 300
Roth, M.R. and Welti, R.
Lipid arrangement in fluid model membranes: analysis by cross-linking of phosphatidylethanolamines (1063) 242
Rothblat, G.H., see Bielicki, J.K. (1085) 7
Rothblat, G.H., see Johnson, W.J. (1085) 273
Rothman, S., Liebow, C. and Grendell, J.
Nonparallel transport and mechanisms of secretion (1071) 159
Rothman, S., Underwood, J., McQuaid, K. and Grendell, J.
The relationship between the light scattering properties of zymogen granules and the release of their contained proteins (1074) 85
Rotoli, B.M., see Bussolati, O. (1070) 305
Rottem, S., see Salman, M. (1063) 209
Rouaze-Romet, M., see Savu, L. (1097) 19
Rouis, M., see Nigon, F. (1083) 230
Rousson, R., see Vanier, M.T. (1096) 328
Rowe, D., see Middleton, P.G. (1090) 109
Rowley, A.F.
Lipoxin formation in fish leucocytes (1084) 303
Royce, L.S. and Baum, B.J.
Physiologic levels of salivary epidermal growth factor stimulate migration of an oral epithelial cell line (1092) 401
Ruban, A.V., Rees, D., Noctor, G.D., Young, A. and Horton, P.
Long-wavelength chlorophyll species are associated with amplification of high-energy-state excitation quenching in higher plants (1059) 355
Rubbo, H., Radi, R. and Prodanov, E.
Substrate inhibition of xanthine oxidase and its influence on superoxide radical production (1074) 386
Rubenstein, D.S., see Uhing, R.J. (1093) 115
Rubin, E., see Ellingson, J.S. (1062) 199
Rubin, E., see Stubbs, C.D. (1070) 349
Rubin, J.E., Titus, L. and Nanes, M.S.
Prostaglandin E_2 induction of monoblastic differentiation utilizes both cAMP and non-cAMP dependent signalling systems (1091) 87
Rubin, M., see Rotenberg, M. (1086) 265
Rudduck, C., see Collins, S. (1097) 309
Rudolph, A.S. and Goins, B.
The effect of hydration stress solutes on the phase behavior of hydrated dipalmitoylphosphatidylcholine (1066) 90
Ruff, L.J., Miller, L.G. and Brass, E.P.
Effect of exogenous carnitine on carnitine homeostasis in the rat (1073) 543
Ruff, P., see Husain-Chishti, A. (1096) 263
Ruffle, S.V., see Bowden, S.J. (1060) 89
Ruffle, S.V., see Hallahan, B.J. (1059) 181
Ruggiero, F.M., see Paradies, G. (1070) 180
Rugolo, M., see Mastrocola, T. (1069) 201
Rugolo, M., see Mastrocola, T. (1097) 275
Ruiz, J.I., see Martinez, M.J. (1085) 106
Ruiz, M.-C., see Apitz-Castro, R. (1094) 269
Ruiz, P., see Singh, S.V. (1074) 363
Ruizeveld de Winter, J.A., see Zegers, N.D. (1073) 23
Rushkin, E., see Ronen, S.M. (1095) 5
Russell, G.C. and Guest, J.R.
Sequence similarities within the family of dihydrolipoamide acyltransferases and discovery of a previously unidentified fungal enzyme (1076) 225
Russell, J.C., see Brindley, D.N. (1085) 119
Russell, N.H., see McGregor, S.J. (1095) 196
Russell, N.J., see Sutton, G.C. (1061) 235
Russell, R.G.G., see Caswell, A.M. (1074) 151
Rustan, A.C., see Christiansen, E.N. (1082) 57
Rustenbeck, I., Eibl, H. and Lenzen, S.
Structural requirements of lysophospholipid-regulated mitochondrial Ca^{2+} transport (1069) 99
Rutigliano, B., see Caruso, C. (1078) 273
Rutishauser, U., see Sheppard, A. (1076) 156
Ruttkowski, E., Labitzke, R., Khanh, N.Q., Löffler, F., Gottschalk, M. and Jany, K.-D.
Cloning and DNA sequence analysis of a polygalacturonase cDNA from *Aspergillus niger* RH5344 (1087) 104
Rützel, A., see Uedelhoven, W.M. (1081) 197
Ruuge, E.K., see Timonin, I.M. (1066) 43
Ruyechan, W.T., see Feuerstein, N. (1087) 127
Ruzzene, M., Donella-Deana, A., Alexandre, A., Francesconi, M.A. and Deana, R.
The antioxidant butylated hydroxytoluene stimulates platelet protein kinase C and inhibits subsequent protein phosphorylation induced by thrombin (1094) 121
Ruzzene, M., see Doni, M.G. (1094) 323
Ruzzene, M., see Zoccarato, F. (1092) 72
Ryan, A.J., see Murphy, D.J. (1088) 86
Ryan, R.O., see Liu, H. (1085) 112
Ryba, O., see Metlička, R. (1069) 175
Rybkine, T., see Ribeiro, A. (1087) 219
Rybová, R., see Metlička, R. (1069) 175
Ryzlak, M.T., Ambroziak, W. and Schaffner, C.P.
Effect of cholesta-3,5-dien-7-one on human liver aldehyde dehydrogenase (1079) 203

S

Saalman, E., Nordén, B., Arvidsson, L., Hamnerius, Y., Höjevik, P., Connell, K.E. and Kurucsev, T.
Effect of 2.45 GHz microwave radiation on permeability of unilamellar liposomes to 5(6)-carboxyfluorescein. Evidence of non-thermal leakage (1064) 124
Saar, J., Kader, J.-C., Poralla, K. and Ourisson, G.
Purification and some properties of the squalene-tetrahymanol cyclase from *Tetrahymena thermophila* (1075) 93
Sabater, F., see Acosta, M. (1077) 273
Sabelnikov, A.G., Cymbalyuk, E.S., Gongadze, G. and Borovyagin, V.L.
Escherichia coli membranes during electrotransformation: an electron microscopy study (1066) 21
Sabloff, M., see Bell, D. (1089) 299
Sacchi, V.F., see Andrietti, F. (1067) 103
Sacco, A.M., see Turcotte, J.G. (1084) 1
Sachar, R.C., see Mathur, M. (1078) 161
Sachdev, G.P., see Padhye, N.V. (1077) 332
Sachs, G., see Hall, K. (1077) 173
Sackmann, E., see Heise, H. (1061) 121
Sackmann, E., see Pink, D.A. (1065) 167
Sackmann, U., see Nehls, U. (1088) 325
Sackmann, U., see Preis, D. (1090) 133
Sackmann, U., see Weidner, U. (1089) 391

Saddik, M. and Lopaschuk, G.D.
The fate of arachidonic acid and linoleic acid in isolated working rat hearts containing normal or elevated levels of coenzyme A (1086) 217
Sadler, P.J., see Bell, J.D. (1096) 101
Sadoul, R. and Featherstone, M.S.
Sequence analysis of the homeobox-containing exon of the murine Hox-4.3 homeogene (1089) 259
Saeed, A., see Baburaj, K. (1078) 258
Saeki, H., see Hashimoto, H. (1095) 140
Saeki, M., see Hayashi, K. (1082) 152
Saenger, W., see MacKerell Jr., A.D. (1073) 357
Sáez, G.T., Valls, V., Cabedo, H., Iradi, A., Bannister, W.H. and Bannister, J.V.
Effect of metal ion catalyzed oxidation of rifamycin SV on cell viability and metabolic performance of isolated rat hepatocytes (1092) 325
Safonova, E.Y., see Grechkin, A.N. (1081) 79
Safonova, E.Y., see Grechkin, A.N. (1086) 317
Saggerson, D., see Ghadiminejad, I. (1083) 166
Saggerson, D., see Ghadiminejad, I. (1085) 377
Sahashi, K., see Ohno, K. (1090) 9
Saheki, T., see Matuda, S. (1089) 1
Sahlén, S., see Steen, A.-M. (1088) 77
Saida, K. and Mitsui, Y.
cDNA cloning, sequence analysis and tissue distribution of a precursor for vasoactive intestinal contractor (VIC) (1089) 404
Saidha, T., see Li, J. (1078) 68
Saint-Martin, H., Ortega-Blake, I., Leś, A. and Adamowicz, L.
Ab initio calculations of the pyrophosphate hydrolysis reaction (1080) 205
Saito, K., see Nakayama, R. (1085) 235
Saito, T., see Nohno, T. (1089) 273
Saito, T., see Urashima, T. (1073) 225
Saito, Y., see Hayashi, M. (1094) 249
Saitoh, T., see Kawasaki, Y. (1067) 71
Saitoh, Y., see Asada, H. (1080) 34
Sakagishi, Y., see Koyama, I. (1080) 165
Sakai, H., see Choi, Y.-L. (1088) 31
Sakai, H., see Nagata, Y. (1076) 187
Sakai, K., Hasumi, K. and Endo, A.
Identification of koningic acid (heptelidic acid)-modified site in rabbit muscle glyceraldehyde-3-phosphate dehydrogenase (1077) 192
Sakai, K., Katsumi, R., Isobe, A. and Nanjo, F.
Purification and hydrolytic action of a chitosanase from *Nocardia orientalis* (1079) 65
Sakai, T., see Koyama, I. (1080) 165
Sakai-Tomita, Y., see Okabe, Y. (1059) 332
Sakajo, S., Minagawa, N., Komiyama, T. and Yoshimoto, A.
Molecular cloning of cDNA for antimycin A-inducible mRNA and its role in cyanide-resistant respiration in *Hansenula anomala* (1090) 102
Sakamoto, W., Fujie, K., Handa, H., Nishihira, J. and Mino, M.
Vitamin E inhibits PGE_2 and O_2^- production in rat peritoneal macrophages (1074) 251
Sakata, K., see Suzuki, N. (1092) 367
Sakata, N., see Ohyashiki, T. (1067) 159
Sakata, Y., see Kawaguchi, H. (1094) 161
Sakiyama, S., see Takenaga, K. (1087) 101
Saks, V.A., Belikova, Y.O. and Kuznetsov, A.V.
In vivo regulation of mitochondrial respiration in cardiomyocytes: specific restrictions for intracellular diffusion of ADP (1074) 302
Sakuma, M., see Yamada, J. (1092) 233
Sakurai, H., Izumi, S. and Tomino, S.
In vitro transcription of the plasma protein genes of *Bombyx mori* (1087) 18
Sakurai, T., Kimura, S., Nakano, M. and Kimura, H.
The oxidative modification of low density lipoprotein by nonenzymatically glycated peptide-Fe complex (1086) 273
Salač, M.L.B. and Mourão, P.A.S.
Effects of detergents on the sulfation of chondroitin sulfate by sulfotransferase from chicken embryo epiphyseal cartilage (1074) 130
Salamino, F., Sparatore, B., De Tullio, R., Pontremoli, R., Melloni, E. and Pontremoli, S.
The calpastatin defect in hypertension is possibly due to a specific degradation by calpain (1096) 265
Salamon, H., see Gross, C.T. (1079) 153
Salas, R., see Apitz-Castro, R. (1094) 269
Salem, A.M., see Khoja, S.M. (1076) 61
Salem, Jr., N., see Hullin, F. (1061) 15
Salemme, F.R., see Weber, P.C. (1058) 83
Salih, E.
Two-hydronic-reactive states of acetylcholinesterase, mechanistically relevant acid-base catalyst of pK_a 6.5 and a modulatory group of pK_a 5.5 (1073) 183
Salih, E., see Cohen, S.G. (1076) 112
Salman, M., Tarshis, M. and Rottem, S.
Small unilamellar vesicles are able to fuse with *Mycoplasma capricolum* cells (1063) 209
Salmon, S., Mazière, J.C., Santus, R. and Morlière, P.
A mechanistic study of the interaction of UVB radiations with human serum lipoproteins (1086) 1
Salnikow, J., see Shallan, M.A.-A.M. (1057) 64
Saltiel, A.R., see Darnell, J.C. (1084) 269
Saltiel, A.R., see Darnell, J.C. (1084) 279
Saltiel, A.R., see Darnell, J.C. (1084) 292
Saltman, P., see Bakan, D.A. (1079) 182
Saltó, C., see Solsona, C. (1095) 57
Saluja, D., see Mathur, M. (1078) 161
Salvayre, R., see Negre-Salvayre, A. (1096) 291
Samborski, R.W., see Tijburg, L.B.M. (1085) 184
Sa Miranda, M.C., see Van Weely, S. (1096) 301
Samouilidou, E.C., Levis, G.M., Darsinos, J.T., Pistevos, A.C., Karli, J.N. and Tsiganos, C.P.
Effect of low calcium on high-energy phosphates and sarcolemmal Na^+/K^+-ATPase in the infarcted-reperfused heart (1070) 343
Sampi, K., see Makishima, M. (1094) 1
Samuelsson, B., see Wetterholm, A. (1080) 96
Sanchez, A., see Fonteriz, R.I. (1093) 1
Sánchez, E.F., Magalhães, A., Mandelbaum, F.R. and Diniz, C.R.
Purification and characterization of the hemorrhagic factor II from the venom of the Bushmaster snake (*Lachesis muta muta*) (1074) 347
Sanchez, R.A., see Puntarulo, S. (1074) 277
Sanchez-Montero, J.M., Hamon, V., Thomas, D. and Legoy, M.D.
Modulation of lipase hydrolysis and synthesis reactions using carbohydrates (1078) 345
Sancovich, H.A., see Kleiman de Pisarev, D.L. (1074) 172
Sandelius, A.S., see Morré, D.J. (1070) 437
Sandermann, Jr., H. and Duncan, T.M.
Lipid-dependent membrane enzymes. Kinetic modelling of the activation of protein kinase C by phosphatidylserine (1069) 235
Sanders, J.C., Poile, T.W., Spruijt, R.B., Van Nuland, N.A.J., Watts, A. and Hemminga, M.A.
A NMR investigation on the interactions of the α-oligomeric form of the M13 coat protein with lipids, which mimic the *Escherichia coli* inner membrane (1066) 102
Sanderson, P.W., Lis, L.J., Quinn, P.J. and Williams, W.P.
The Hofmeister effect in relation to membrane lipid phase stability (1067) 43
Sandhoff, K., see Van Weely, S. (1096) 301

Sandonà, D., see Rizzuto, R. (1089) 386
Sandonà, D., see Rizzuto, R. (1090) 125
Sandor, A.
Butyrobetaine is equal to L-carnitine in elevating L-carnitine levels in rats (1083) 135
Sandor, A., see Kispal, G. (1085) 217
Sandoval, R., see George, S.K. (1061) 26
Sands, R.H., see Dunham, W.R. (1079) 253
Sandström, P.-E., see Engström, K.G. (1091) 145
Sanford, J.P. and Doyle, D.
Mouse asialoglycoprotein receptor cDNA sequence: conservation of receptor genes during mammalian evolution (1087) 259
Sänger, M., see Borle, F. (1066) 144
Sanghera, J.S., McNabb, C.K., Tonks, N. and Pelech, S.L.
Tyrosyl phosphorylation and activation of the myelin basic protein kinase p44^{mpk} during sea star oocyte maturation (1095) 153
Sannia, G., Limongi, P., Cocca, E., Buonocore, F., Nitti, G. and Giardina, P.
Purification and characterization of a veratryl alcohol oxidase enzyme from the lignin degrading basidiomycete *Pleurotus ostreatus* (1073) 114
Sannia, G., see Birolo, L. (1080) 198
Sano, A., see Ueno, S.-i. (1073) 233
Sano, H., see Kawaguchi, H. (1094) 161
Sano, N., see Takikawa, H. (1081) 39
Sano, S.-i., see Yang, W.-J. (1075) 75
Sano, T., see Kaya, K. (1084) 101
Santini, M.T., Indovina, P.L. and Cantafora, A.
The cesium-induced delay in myoblast membrane fusion is accompanied by changes in cellular subfraction lipid composition (1070) 27
Santoni, A., see Gulino, A. (1087) 7
Santucci, R., see Congiu Castellano, A. (1080) 119
Santus, R., see Morlière, P. (1084) 261
Santus, R., see Salmon, S. (1086) 1
Sapienza, C.
Genome imprinting and carcinogenesis (1072) 51
Saraiva, M.J., see Almeida, M.R. (1097) 224
Sarda, N., Gharib, A., Croset, M., Molière, P. and Lagarde, M.
Fatty acid composition of the rat pineal gland. Dietary modifications (1081) 75
Sarge, K.D. and Maxwell, E.S.
Intermolecular hybridization of 5S rRNA with 18S rRNA: Identification of a 5′-terminally-located nucleotide sequence in mouse 5S rRNA which base-pairs with two specific complementary sequences in 18S rRNA (1088) 57
Sarkadi, B. and Parker, J.C.
Activation of ion transport pathways by changes in cell volume (1071) 407
Sarkar, B., see Mas, A. (1092) 35
Sarkar, M., Majumder, G.C. and Chatterjee, T.
Goat sperm membrane: lectin-binding sites of sperm surface and lectin affinity chromatography of the mature sperm membrane antigens (1070) 198
Sarrazin, M., see Rimet, O. (1076) 435
Sasada, R., see Seno, M. (1089) 244
Sasaki, K., see Kitagawa, Y. (1089) 339
Sasaki, S., see Okuyama, H. (1084) 13
Sasaki, T., see Yonemasu, K. (1096) 47
Sassa, S., see Fujita, H. (1090) 311
Sastre, J., Sweiry, J.H., Doolabh, K., Viña, J. and Mann, G.E.
Significance of γ-glutamyltranspeptidase in exocrine pancreatic amino acid transport (1065) 213
Sathe, S.K., see Edmunds, T. (1077) 197
Sato, E., see Fujii, Y. (1063) 90
Sato, E., see Yamashita, A. (1091) 46
Sato, F., Okamoto, Y., Ouchi, Y., Kaneki, M., Nakamura, T., Ikekawa, N. and Orimo, H.
Biological activity of 1α,25-dihydroxyvitamin D derivatives – 24-*epi*-1α,25-dihydroxyvitamin D–2 and 1α,25-dihydroxyvitamin D–7 (1091) 188
Sato, H., Ishii, T., Sugita, Y. and Bannai, S.
Induction of cationic amino acid transport activity in mouse peritoneal macrophages by lipopolysaccharide (1069) 46
Sato, H., Yoshioka, K., Terasaki, T. and Tsuji, A.
Receptor-mediated endocytosis of A_{14}-^{125}I-insulin by the nonfiltering perfused rat kidney (1073) 442
Sato, H., see Bannai, S. (1092) 175
Sato, H., see Yae, Y. (1078) 369
Sato, K., see Carrillo, M.-C. (1077) 325
Sato, M., see Harada, M. (1056) 279
Sato, N. and Murata, N.
Transition of lipid phase in aqueous dispersions of diacylglyceryltrimethylhomoserine (1082) 108
Sato, R., Shindo, M., Gunshin, H., Noguchi, T. and Naito, H.
Characterization of phosphopeptide derived from bovine β-casein: an inhibitor to intra-intestinal precipitation of calcium phosphate (1077) 413
Sato, S., see Kusui, T. (1094) 231
Sato, S., see Shiratsuchi, A. (1090) 348
Sato, Y., see Aoyama, Y. (1081) 262
Sato, Y., see Hasumi, K. (1083) 289
Sato, Y., see Sono, H. (1078) 388
Satoh, K., see Carrillo, M.-C. (1077) 325
Satoh, O., Koyama, S.-y., Yamada, K. and Kawasaki, T.
Changes in amino acid and glucose transport in brush-border membrane vesicles of hyperglycemic guinea-pig small intestine (1063) 155
Satoh, S., see Ikeda, M. (1070) 77
Satoh, S., see Kusunoki, C. (1087) 95
Satterlee, J. and Hsu, R.Y.
Duck liver malic enzyme: sequence of a tryptic peptide containing the cysteine residue labeled by the substrate analog bromopyruvate (1079) 247
Sattler, W., Kostner, G.M., Waeg, G. and Esterbauer, H.
Oxidation of lipoprotein Lp(a). A comparison with low-density lipoproteins (1081) 65
Sauer, A., Kurzion, T., Meyerstein, D. and Meyerstein, N.
Kinetics of hemolysis of normal and abnormal red blood cells in glycerol-containing media (1063) 203
Sauer, H., Pratsch, L., Tschopp, J., Bhakdi, S. and Peters, R.
Functional size of complement and perforin pores compared by confocal laser scanning microscopy and fluorescence microphotolysis (1063) 137
Sauer, K., see Green, S.R. (1090) 277
Sauer, K., see Woo Park, J. (1056) 181
Saul, A., see Jones, G.L. (1096) 33
Saumon, G., see Clerici, C. (1063) 27
Saunier, M., see Guéant, J.L. (1073) 614
Sauvage, M., see Gascard, P. (1069) 27
Savaiano, D.A., see Gross, C.J. (1073) 260
Savu, L., Vranckx, R., Rouaze-Romet, M., Maya, M., Nunez, E.A., Tréton, J. and Flink, I.L.
A senescence up-regulated protein: the rat thyroxine-binding globulin (TBG) (1097) 19
Sawada, H., see Hara, A. (1075) 61
Sawatzki, J., see Mäntele, W. (1057) 367
Saxena, M., see Singhal, S.S. (1079) 285
Say, J.C., Ciuffi, K., Furriel, R.P.M., Ciancaglini, P. and Leone, F.A.
Alkaline phosphatase from rat osseous plates: purification and biochemical characterization of a soluble form (1074) 256
Scaglioni, L., see Ragg, E. (1076) 37

Scaglioni, L., see Ragg, E. (1076) 49
Scalera, V., Natuzzi, D. and Prezioso, G.
myo-Inositol transport in rat intestinal brush border membrane vesicles, and its inhibition by D-glucose (1062) 187
Scarabelli, L., see Cesarone, C.F. (1087) 241
Scawen, M.D., see Barstow, D.A. (1087) 73
Scawen, M.D., see Spencer, P. (1073) 386
Schafer, A.I., see Luzzatto, G. (1084) 78
Schafer, R.M., see Leszczynski, D.E. (1083) 18
Schaffner, C.P., see Ryzlak, M.T. (1079) 203
Schalkwijk, J., De Roo, C. and De Jongh, G.J.
Skin-derived antileukoproteinase (SKALP), an elastase inhibitor from human keratinocytes. Purification and biochemical properties (1096) 148
Schallreuter, K.U. and Wood, J.M.
Sensitivity and resistance in human metastatic melanoma to the new chloroethylnitrosourea anti-tumor drug Fotemustine (1096) 277
Schallreuter, K.U., see Wood, J.M. (1074) 378
Schaup, H.W., see Rahman, M.A. (1087) 212
Scheer, H., see Struck, A. (1060) 262
Scheibe, R., Kampfenkel, K., Wessels, R. and Tripier, D.
Primary structure and analysis of the location of the regulatory disulfide bond of pea chloroplast NADP-malate dehydrogenase (1076) 1
Scheit, K.H., see Bräuer, C. (1090) 259
Schelen, A., see Wiemer, E.A.C. (1097) 232
Schellenberger, V., Jakubke, H.-D. and Kasche, V.
Electrostatic effects in the α-chymotrypsin-catalyzed acyl transfer. II. Efficiency of nucleophiles bearing charged groups in various locations (1078) 8
Schellenberger, V., Kosk, M., Jakubke, H.-D. and Aaviksaar, A.
Electrostatic effects in the α-chymotrypsin-catalyzed acyl transfer. I. Influence of different inorganic salts (1078) 1
Schellenberger, V., see Mueller, K. (1076) 308
Scheper, G.C., Thomas, A.A.M. and Voorma, H.O.
The 5′ untranslated region of encephalomyocarditis virus contains a sequence for very efficient binding of eukaryotic initiation factor eIF-2/2B (1089) 220
Scherman, D., see Schmidle, T. (1060) 251
Schiavo, G.-P., see Gasset, M. (1068) 9
Schiavo, G., see Massari, S. (1067) 131
Schick, B., see Pieper, U. (1087) 147
Schierhorn, M., see Rahfeld, J. (1076) 314
Schiff, J.A., see Li, J. (1078) 68
Schilstra, M.J., see Martin, S.R. (1073) 555
Schiltz, E., see Welte, W. (1080) 271
Schinkinger, M.F., Redl, B. and Stöffler, G.
Purification and properties of an extreme thermostable glutamate dehydrogenase from the archaebacterium *Sulfolobus solfataricus* (1073) 142
Schlaepfer, W.W., see Zimmerman, U.-J.P. (1078) 192
Schlame, M., see Van Wijk, G.M.T. (1086) 99
Schlegel, R.A., see Kundu, M. (1096) 205
Schlewer, G., see Schmitt, L. (1075) 139
Schmeer, W., see Hermans, M.P. (1092) 205
Schmid, R.D., see Kalisz, H.M. (1080) 138
Schmidle, T., Weiler, R., Desnos, C., Scherman, D., Fischer-Colbrie, R., Floor, E. and Winkler, H.
Synaptin/synaptophysin, p65 and SV2: their presence in adrenal chromaffin granules and sympathetic large dense core vesicles (1060) 251
Schmidt, G. and Werner, D.
Nucleotide sequence of the murine prothymosin α cDNA and its deduced primary and secondary protein structure (1088) 442
Schmidt-Spaniol, I., see Boldyreff, B. (1088) 439
Schmitt, L., Schlewer, G. and Spiess, B.
Ionization state of *myo*-inositol 1,4,5-trisphosphate: correlation with binding properties (1075) 139
Schnabel, J., see Thurnhofer, H. (1064) 275
Schneck, L., see Hoffman, L.M. (1084) 94
Schneider, A., see Reimann, F.M. (1085) 315
Schneider, R., see Preis, D. (1090) 133
Schneijdenberg, C.T.W.M., see Hülsmann, W.C. (1097) 263
Schnyder, B., see Koller, M. (1087) 180
Schöbitz, B., Hannappel, E. and Brand, K.
The early induction of the actin-sequestering peptide thymosin β_4 in thymocytes depends on the proliferative stimulus (1095) 230
Schöbitz, B., Wolf, S., Christopherson, R.I. and Brand, K.
Nucleotide and nucleic acid metabolism in rat thymocytes during cell cycle progression (1095) 95
Schoenmakers, J., see Zaman, G. (1089) 183
Schoffeniels, E., see Bettendorff, L. (1073) 69
Schohn, H., see Guéant, J.L. (1073) 614
Schölermann, B., see Morrison, A.I. (1089) 121
Schomburg, D., see Kalisz, H.M. (1080) 138
Schön, I., see Lomnitski, L. (1082) 101
Schonfeld, G., see Srivastava, R.A.K. (1086) 29
Schonfeld, G., see Srivastava, R.A.K. (1090) 95
Schrage, C., see Taanman, J.-W. (1089) 283
Schram, A.W., see Van Weely, S. (1096) 301
Schray, B., Thömmes, P. and Knippers, R.
Glutaminyl-tRNA synthetase as a component of the high-molecular weight complex of human aminoacyl-tRNA synthetases. An immunological study (1087) 226
Schreiber, S.L., see Stankovic, C.J. (1061) 163
Schröder, H., see Heller, R. (1093) 55
Schroeder, F., Nemecz, G., Wood, W.G., Joiner, C., Morrot, G., Ayraut-Jarrier, M. and Devaux, P.F.
Transmembrane distribution of sterol in the human erythrocyte (1066) 183
Schroit, A.J. and Zwaal, R.F.A.
Transbilayer movement of phospholipids in red cell and platelet membranes (1071) 313
Schroit, A.J., see Connor, J. (1066) 37
Schuil, D.W., see Bersohn, M.M. (1062) 19
Schulz, G.E., see Welte, W. (1080) 271
Schulz, H.
Beta oxidation of fatty acids (1081) 109
Schulz, T.K.F., see Surholt, B. (1086) 15
Schulze-Forster, K., see Götz, F. (1087) 323
Schulze, H.-U., see Speth, M. (1068) 217
Schumacher, U., see Engelmann, B. (1091) 261
Schümperli, D., see Gruber, A. (1088) 151
Schurtenberger, P., see Yin, C.-C. (1070) 33
Schutgens, R.B.H., see Heikoop, J.C. (1097) 62
Schutgens, R.B.H., see Wiemer, E.A.C. (1097) 232
Schwartz, J.-L., Garneau, L., Masson, L. and Brousseau, R.
Early response of cultured lepidopteran cells to exposure to δ-endotoxin from *Bacillus thuringiensis*: involvement of calcium and anionic channels (1065) 250
Schwartz, M., Holloman, T.L., Zhang, J. and Carrasquer, G.
Further evidence for a simple Cl^- conductance pathway in nutrient membrane of frog stomach (1062) 113
Schwartz, M., see Carrasquer, G. (1069) 181
Schwartzbach, C.J., see Kumazawa, Y. (1090) 167
Schwarz, G., see Pawlak, M. (1062) 94
Schwarz, G., see Stankowski, S. (1069) 77
Schwarz, S.M., see Gerritsen, M.E. (1065) 63
Schwarz, W., see Efthymiadis, A. (1068) 73
Schwarz, W., see Steffgen, J. (1066) 14
Schwarz, W., see Weber, W.-M. (1063) 73
Schwarzmann, G., see Van Weely, S. (1096) 301
Schwendenwein, R., see Adolf, G.R. (1089) 167

Scicli, A.G., see Mindroiu, T. (1076) 9
Scopes, R.K., see Reyes, L. (1068) 174
Scorza, G., see Minetti, M. (1074) 112
Scott, D.M., see Von Recklinghausen, I.R. (1091) 179
Scott, H.M. and Burchell, A.
Pentamidine activates T_1 the hepatic microsomal glucose 6-phosphate transport protein of the glucose-6-phosphatase system (1097) 31
Scott, R.A., see Hamilton, C.L. (1074) 312
Scott, R.I., see Bonner, F.T. (1056) 133
Scott, T.W., see Divecha, N. (1093) 184
Scovassi, A.I., see Cesarone, C.F. (1087) 241
Scovell, W.M., see Hayes, J. (1089) 377
Scovell, W.M., see Hayes, J.J. (1088) 413
Scow, R.O., see Oka, K. (1089) 13
Screpanti, I., see Gulino, A. (1087) 7
Seal, G., Tallarida, R.J. and Sirover, M.A.
Purification and properties of the uracil DNA glycosylase from Bloom's syndrome (1097) 299
Sebban, P., Parot, P., Baciou, L., Mathis, P. and Verméglio, A.
Effects of low temperature and lipid rigidity on the charge recombination process in *Rps. viridis* and *Rb. sphaeroides* reaction centers (1057) 109
Seeger, W., Thede, C., Günther, A. and Grube, C.
Surface properties and sensitivity to protein-inhibition of a recombinant apoprotein C-based phospholipid mixture in vitro – comparison to natural surfactant (1081) 45
Seelig, J., see Beschiaschvili, G. (1061) 78
Seelig, J., see Künnecke, B. (1095) 103
Seelos, C., see Goldenberg, H. (1067) 145
Segal, S., see Reynolds, R.A. (1074) 56
Sehayek, E., see Arnon, R. (1085) 336
Sehlin, J., see Engström, K.G. (1091) 145
Seidler, G., see Ihrig, I. (1069) 171
Seidler, N.W., see Buchet, R. (1068) 201
Seidou, M., see Hiraki, K. (1077) 355
Seiffert, D. and Loskutoff, D.J.
Kinetic analysis of the interaction between type 1 plasminogen activator inhibitor and vitronectin and evidence that the bovine inhibitor binds to a thrombin-derived amino-terminal fragment of bovine vitronectin (1078) 23
Seitz, J., Keppler, C., Hüntemann, S., Rausch, U. and Aumüller, G.
Purification and molecular characterization of a secretory transglutaminase from coagulating gland of the rat (1078) 139
Seiyama, A., see Izumida, Y. (1067) 221
Sekeri-Pataryas, K.E., see Sourlingas, T.G. (1092) 298
Sekharam, K.M., Bradrick, T.D. and Georghiou, S.
Kinetics of melittin binding to phospholipid small unilamellar vesicles (1063) 171
Seki, S., Ikeda, S., Watanabe, S., Hatsushika, M., Tsutsui, K., Akiyama, K. and Zhang, B.
A mouse DNA repair enzyme (APEX nuclease) having exonuclease and apurinic/apyrimidinic endonuclease activities: purification and characterization (1079) 57
Sekimizu, K., see Hirai, H. (1088) 191
Sekimizu, K., see Hirai, H. (1090) 305
Selden, L.A., see Kinosian, H.J. (1077) 151
Seledtsov, I.A., Solovyev, V.V. and Merkulova, T.I.
New elements of glucocorticoid-receptor binding sites of hormone-regulated genes (1089) 367
Seledtsov, I.A., see Plisov, S.Y. (1095) 114
Self, S.J., see Mayes, S.R. (1060) 1
Sellinger, O.Z. and Wolfson, M.F.
Carboxylmethylation affects the proteolysis of myelin basic protein by *Staphylococcus aureus* V_8 proteinase (1080) 110
Sells, T.B., see Nair, V. (1078) 121
Semple, S.C., see Chonn, A. (1070) 215
Sen, A.K.
A graph-theoretic analysis of metabolic regulation in linear pathways with multiple feedback loops and branched pathways (1059) 293
Senar, S., see Pérez-Albarsanz, M.A. (1066) 124
Sener, A., see Blachier, F. (1091) 151
Sener, A., see Blachier, F. (1092) 304
Sengupta, S., Ghosh, A.K. and Sengupta, S.
Purification and characterisation of a β-glucosidase (cellobiase) from a mushroom *Termitomyces clypeatus* (1076) 215
Sengupta, S., see Sengupta, S. (1076) 215
Senior, J., Delgado, C., Fisher, D., Tilcock, C. and Gregoriadis, G.
Influence of surface hydrophilicity of liposomes on their interaction with plasma protein and clearance from the circulation: studies with poly(ethyleneglycol)-coated vesicles (1062) 77
Senior, J.H., Trimble, K.R. and Maskiewicz, R.
Interaction of positively-charged liposomes with blood: implications for their application in vivo (1070) 173
Senisterra, G.A., Gagliardino, J.J. and Disalvo, E.A.
Effect of insulin on the lytic action of lysophosphatidylcholine in lipid bilayers (1064) 148
Seno, M., Sasada, R., Watanabe, T., Ishimaru, K. and Igarashi, K.
Two cDNAs encoding novel human FGF receptor (1089) 244
Senō, M., see Watanabe, S. (1073) 275
Sentjurc, M., Pecar, S., Chen, K., Wu, M. and Swartz, H.
Cellular metabolism of proxyl nitroxides and hydroxylamines (1073) 329
Seo, N., Okamoto, E. and Goto, M.
Isolation of two new natural pteridines from photosynthetic bacteria, *Rhodopseudomonas sphaeroides* (1074) 439
Sepp, A. and Järv, J.
Alkylation of acetylcholinesterase anionic centre with aziridinium ion accelerates the enzyme acylation step (1077) 407
Sepúlveda, F.V., see O'Brien, J.A. (1070) 501
Seris, J.-L., see Urrutigoïty, M. (1079) 209
Serizawa, N. and Matsuoka, T.
A two component-type cytochrome *P*-450 monooxygenase system in a prokaryote that catalyzes hydroxylation of ML-236B to pravastatin, a tissue-selective inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A reductase (1084) 35
Serra, F., Johnston, J., Carnie, J. and Palou, A.
Altered blood amino acid distribution in genetically obese mice (1097) 289
Serrano, R., Montesinos, C., Roldán, M., Garrido, G., Ferguson, C., Leonard, K., Monk, B.C., Perlin, D.S. and Weiler, E.W.
Domains of yeast plasma membrane and ATPase-associated glycoprotein (1062) 157
Servent, D., Ducrocq, C., Henry, Y., Guissani, A. and Lenfant, M.
Nitroglycerin metabolism by *Phanerochaete chrysosporium*: evidence for nitric oxide and nitrite formation (1074) 320
Sessa, A. and Perin, A.
Spermidine N^1-acetyltransferase activity in rat uterus after 17β-estradiol and during the estrous cycle (1074) 31
Sétif, P., see Bottin, H. (1057) 331
Seufert, W., see Jentsch, S. (1089) 127
Sevanian, A., see Zhang, J.-R. (1085) 159
Seyama, Y., see Kim, K.S. (1085) 343
Seyama, Y., see Watanabe, T. (1074) 398
Seydel, U., see Brandenburg, K. (1069) 1
Shabarova, Z.A., see Kubareva, E.A. (1088) 395
Shafrir, E., see Barash, V. (1073) 161
Shahed, A.E., see Højrup, P. (1077) 220
Shainberg, A., see Shoshan-Barmatz, V. (1065) 82
Shaklai, N., see Solar, I. (1062) 51
Shallan, M.A.-A.M., Radau, B., Salnikow, J. and Vater, J.
Topological analysis of components of the cytochrome b_6f complex by chemical crosslinking (1057) 64

Shankaran, R., Ameen, M., Daniel, W.L., Davidson, R.G. and Chang, P.L.
Characterization of arylsulfatase C isozymes from human liver and placenta (1078) 251
Shannon, J.M., see McCormack, F.X. (1087) 190
Shapiro, R., see Wetterholm, A. (1080) 96
Sharma, R., see Singhal, S.S. (1079) 285
Sharman, A.F., see Barstow, D.A. (1087) 73
Sharom, F.J., Chiu, A.L.H. and Chu, J.W.K.
Membrane gangliosides modulate interleukin-2-stimulated T-lymphocyte proliferation (1094) 35
Shashkov, A.S., see Tul'skaya, E.M. (1074) 237
Shatters, Jr., R.G. and Miernyk, J.A.
A zein signal sequence functions as a signal-anchor when fused to maize alcohol dehydrogenase (1068) 179
Shaw, C.H., see Murphy, D.J. (1088) 86
Shaw, D.C., see Halliday, J.A. (1077) 25
Shaw, P.C., see Ho, W.K.K. (1088) 311
Shay, J.W., Wright, W.E. and Werbin, H.
Defining the molecular mechanisms of human cell immortalization (1072) 1
Shechter, E., see Houssin, C. (1056) 76
Shehan, K.L., see Malavolti, M. (1081) 106
Sheikh, M.I., see Blokkebak-Poulsen, J. (1068) 125
Sheikh, M.I., see Jessen, H. (1064) 189
Shelley, S.A., Paciga, J.E. and Balis, J.U.
Lysozyme is an ozone-sensitive component of alveolar type II cell lamellar bodies (1096) 338
Sheppard, A., Wu, J., Rutishauser, U. and Lynch, G.
Proteolytic modification of neural cell adhesion molecule (NCAM) by the intracellular proteinase calpain (1076) 156
Sheppard, J.D., Jumarie, C., Cooper, D.G. and Laprade, R.
Ionic channels induced by surfactin in planar lipid bilayer membranes (1064) 13
Shibahara, S., see Fujita, H. (1090) 311
Shibasaki, Y., see Shimano, H. (1086) 245
Shibata, K., see Asada, H. (1080) 34
Shibayama, N., see Adachi, K. (1079) 268
Shibuya, Y., Tanaka, H., Nishino, N., Okabe, H., Kambara, T. and Yamamoto, T.
Activation of human plasma prekallikrein by *Pseudomonas aeruginosa* elastase in vitro (1097) 23
Shibuya, Y., Yamamoto, T., Morimoto, T., Nishino, N., Kambara, T. and Okabe, H.
Pseudomonas aeruginosa alkaline proteinase might share a biological function with plasmin (1077) 316
Shidara, S., see Iwasaki, H. (1058) 79
Shieh, W.-R., see Chen, C.-S. (1078) 411
Shiels, A., Griffin, C.S. and Muggleton-Harris, A.L.
Restriction fragment length polymorphisms associated with the gene for the major intrinsic protein of eye-lens fibre cell membranes in mice with hereditary cataracts (1097) 81
Shiels, A., Griffin, C.S. and Muggleton-Harris, A.L.
Immunochemical comparison of the major intrinsic protein of eye-lens fibre cell membranes in mice with hereditary cataracts (1097) 318
Shigeno, C., see Kusui, T. (1094) 231
Shikano, Y., see Takahashi, M. (1082) 161
Shiloni, E., see Stein, O. (1082) 33
Shima, H., see Kitagawa, Y. (1089) 339
Shimada, K., see Chijiiwa, K. (1086) 44
Shimada, M., see Shimano, H. (1086) 245
Shimada, M., see Shimano, H. (1090) 91
Shimahara, K., see Takayanagi, T. (1078) 404
Shimano, H., Fukazawa, C., Shibasaki, Y., Mori, N., Gotoda, T., Harada, K., Shimada, M., Yamada, N., Yazaki, Y. and Takaku, F.
The effect of apo E secretion on lipoprotein uptake in transfected cells (1086) 245
Shimano, H., Yamada, N., Shimada, M., Ohsawa, N., Fukazawa, C., Yazaki, Y., Takaku, F. and Katsuki, M.
Hepatic and renal expression of rat apolipoprotein E under control of the metallothionein promotor in transgenic mice (1090) 91
Shimano, H., see Mokuno, H. (1082) 63
Shimazaki, K., see Tsuge, H. (1078) 77
Shimazaki, K., see Urashima, T. (1073) 225
Shimizu, C., see Nishi, N. (1095) 268
Shimizu, H., Miyamura, K. and Kuroki, Y.
Appearance of surfactant proteins, SP-A and SP-B, in developing rat lung and the effects of in vivo dexamethasone treatment (1081) 53
Shimizu, H., see Ogasawara, Y. (1083) 252
Shimizu, K., see Kato, K. (1074) 201
Shimizu, T., see Watanabe, T. (1074) 398
Shimoyama, M., see Nakashima, K. (1094) 257
Shin, S., see Tamura, T. (1089) 95
Shindo, M., see Sato, R. (1077) 413
Shinohara, H., see Inaguma, Y. (1075) 68
Shinohara, H., see Kato, K. (1074) 201
Shinohara, H., see Kato, K. (1080) 173
Shinohara, Y., see Koike, H. (1060) 75
Shiota, K., see Noda, K. (1079) 112
Shioyama, T., see Matsuzaki, K. (1070) 419
Shipley, G.G., see Maulik, P.R. (1062) 211
Shirali, S.S., see Turcotte, J.G. (1084) 1
Shiratori, M., see Kuroki, Y. (1086) 185
Shiratori, M., see Ogasawara, Y. (1083) 252
Shiratsuchi, A. and Sato, S.
Nucleotide sequence of *trpE,* anthranilate synthase I gene, of *Bacillus caldotenax* (1090) 348
Shishido, K., see Amano, H. (1088) 251
Shiuan, D., see Lin, K.-C. (1090) 317
Shoji, K., see Yamanaka, T. (1058) 48
Shoki, M., see Kawaguchi, H. (1094) 161
Shoku, Y., see Ueda, H. (1080) 126
Shopes, R.J., see Gao, J.-L. (1056) 259
Shoshan-Barmatz, V. and Shainberg, A.
Inhibition of Ca^{2+} accumulation in isolated sarcoplasmic reticulum by thyroid hormones (1065) 82
Shpanchenko, O.V., see Gusakov, A.V. (1073) 481
Shubin, V.V., Murthy, S.D.S., Karapetyan, N.V. and Mohanty, P.
Origin of the 77 K variable fluorescence at 758 nm in the cyanobacterium *Spirulina platensis* (1060) 28
Shugar, D., see Dobrowolska, G. (1080) 221
Shukla, A., see Shukla, G.S. (1083) 101
Shukla, G.S., Shukla, A., Inokuchi, J.-i. and Radin, N.S.
Rapid kidney changes resulting from glycosphingolipid depletion by treatment with a glucosyltransferase inhibitor (1083) 101
Shukla, S.D., see Dhar, A. (1091) 15
Shuvalov, V.A., see Roelofs, T.A. (1060) 237
Shviro, Y., see Solar, I. (1062) 51
Siedow, J.N., see Moore, A.L. (1059) 121
Siegel, F.L., see Wright, L.S. (1079) 174
Siegmund, K.-D., Plattner, H.J. and Diekmann, H.
Purification of ferrichrome synthetase from *Aspergillus quadricinctus*and characterisation as a phosphopantetheine containing multienzyme complex (1076) 123
Sielewiesiuk, J., see Gruszecki, W.I. (1069) 21
Sielewiesiuk, J., see Subczynski, W.K. (1068) 68
Sies, H., see Devasagayam, T.P.A. (1088) 409
Sigler, K. and Höfer, M.
Mechanisms of acid extrusion in yeast (1071) 375
Sigmund, R.D., see Beerman, T.A. (1090) 52

Sigrist, H., see Borle, F. (1066) 144
Siigur, E. and Siigur, J.
Purification and characterization of lebetase, a fibrinolytic enzyme from *Vipera lebetina* (snake) venom (1074) 223
Siigur, J., see Siigur, E. (1074) 223
Sillero, A., see García-Agúndez, J.A. (1073) 402
Sillero, M.A.G., see García-Agúndez, J.A. (1073) 402
Silver, B.L., see Kahana, E. (1066) 1
Silver, B.L., see Kahana, E. (1066) 6
Silver, B.L., see Streichman, S. (1066) 9
Silver, M.J., see Wojenski, C.M. (1081) 33
Silvius, J.R.
Anomalous mixing of zwitterionic and anionic phospholipids with double-chain cationic amphiphiles in lipid bilayers (1070) 51
Sim, E., see Coroneos, E. (1073) 593
Simatos, G.A., see Morrow, M.R. (1070) 209
Simões, A.P., Moll, G.N., Slotboom, A.J., Roelofsen, B. and Op den Kamp, J.A.F.
Selective internalization of choline-phospholipids in *Plasmodium falciparum* parasitized human erythrocytes (1063) 45
Simon, D., see Götz, F. (1087) 323
Simon, J.D., see Xie, X. (1057) 131
Simon, S.A. and McIntosh, T.J.
Surface ripples cause the large fluid spaces between gel phase bilayers containing small amounts of cholesterol (1064) 69
Simpson, R.J., see Snape, S. (1074) 159
Singh, A.K., see Banerjee, A. (1076) 330
Singh, A.K., see Sonar, S.M. (1076) 239
Singh, B., see Ahmad, S. (1090) 252
Singh, B.R., Giménez, J.A. and DasGupta, B.R.
Comparative molecular topography of botulinum neurotoxins from *Clostridium butyricum* and *Clostridium botulinum* type E (1077) 119
Singh, S.V., Roberts, B., Gudi, V.A., Ruiz, P. and Awasthi, Y.C.
Immunohistochemical localization, purification, and characterization of human urinary bladder glutathione *S*-transferases (1074) 363
Singhal, A., see Verma, S.P. (1070) 265
Singhal, S.S., Gupta, S., Saxena, M., Sharma, R., Ahmad, H., Ansari, G.A.S. and Awasthi, Y.C.
Purification and characterization of glutathione S-transferases from rat pancreas (1079) 285
Sinha, B.K. and Eliot, H.M.
Etoposide-induced DNA damage in human tumor cells: requirement for cellular activating factors (1097) 111
Sinha, B.K., Antholine, W.M., Kalyanaraman, B. and Eliot, H.M.
Copper ion-dependent oxy-radical mediated DNA damage from dihydroxy derivative of etoposide (1096) 81
Sinigaglia, F., see Torti, M. (1070) 20
Sinitsyn, A.P., see Gusakov, A.V. (1073) 481
Sinjorgo, K.M.C., see Van den Bogert, C. (1097) 87
Sirover, M.A., see Seal, G. (1097) 299
Sisfontes, L., see Chow, S.C. (1092) 358
Sisson, P., see Thuren, T. (1083) 217
Sit, K.H. and Wong, K.P.
Sulphate induces very fast cell rounding and detachment (1092) 180
Sitrin, M.D., see Wali, R.K. (1092) 119
Sixou, S., Eynard, N., Escoubas, J.M., Werner, E. and Teissié, J.
Optimized conditions for electrotransformation of bacteria are related to the extent of electropermeabilization (1088) 135
Sizensky, J.A., see Bérczi, A. (1073) 562
Skare, J., see Harding, J. (1097) 183
Skinner, M., see Harding, J. (1097) 183
Skou, J.C., see Cornelius, F. (1067) 227
Skouteris, G.G. and Kaser, M.R.
Hepatocyte conditioned medium modulates the response of primary rat hepatocyte cultures to epidermal growth factor (1095) 169
Skriver, E., see Plesner, L. (1067) 191
Skudlarek, J., see Whelly, S.M. (1092) 218
Sladeczek, F., see Tani, T. (1095) 249
Slaughter, C.A., see DeMartino, G.N. (1079) 29
Sleight, R.G. and Hopper, K.
Evidence for the activity of a phospholipid exchange protein in vivo (1067) 259
Sleight, R.G., see Hug, P. (1097) 1
Slivka, S.R. and Loskutoff, D.J.
Regulation of type I plasminogen activator inhibitor synthesis by protein kinase C and cAMP in bovine aortic endothelial cells (1094) 317
Slocombe, P.M., see Ward, R.V. (1079) 242
Slooff, M.J.H., see Wolters, H. (1069) 61
Slotboom, A.J., see Simões, A.P. (1063) 45
Slotte, J.P., see Pörn, M.I. (1093) 7
Smal, A., see Feller, G. (1079) 343
Small, C.A., Yeaman, S.J., West, D.W. and Clegg, R.A.
Cholesterol ester hydrolysis and hormone-sensitive lipase in lactating rat mammary tissue (1082) 251
Small, M., see Livingstone, C. (1096) 127
Smarrelli, Jr., J., see Callaci, J.J. (1088) 127
Smetsers, A., see Zaman, G. (1089) 183
Smith, C., see Ibdah, J.A. (1081) 220
Smith, D.J., see McDonald, J.R. (1090) 70
Smith, D.L., see McCormack, F.X. (1087) 190
Smith, E.O., BeMent, D.M., Grossman, L.I. and Lomax, M.I.
The cDNA for the heart/muscle isoform of bovine cytochrome *c* oxidase subunit VIa encodes a presequence (1089) 266
Smith, G.M. and Yu, L.P.
High-resolution ^{1}H- and ^{15}N-NMR studies of *Rhodospirillum rubrum* Cytochrome c_2 (1058) 75
Smith, J.B., see Lyu, R.-M. (1068) 97
Smith, J.C., see Tran, T.V. (1059) 265
Smith, J.M.A., see Andrews, S.C. (1078) 111
Smith, M.L., see Paul, J. (1079) 330
Smith, M.W., James, P.S. and Peacock, M.A.
Galactose effects on enterocyte differentiation in the mouse jejunum (1093) 144
Smith, R.N., see Compadre, C.M. (1079) 43
Smith, R.S., see Huang, Y.-S. (1082) 319
Smith, T.J. and Drummond, G.S.
Retinoic acid can enhance the stimulation by thyroid hormone of heme oxygenase activity in the liver of thyroidectomized rats (1075) 119
Smith, T.J., Haque, S. and Drummond, G.S.
Induction of heme oxygenase mRNA by cobalt protoporphyrin in rat liver (1073) 221
Smith, T.L., see Zhou, Q. (1085) 1
Smith, W.L. and Marnett, L.J.
Prostaglandin endoperoxide synthase: structure and catalysis (1083) 1
Smotkin, E.S., Moy, F.T. and Plachy, W.Z.
Dioxygen solubility in aqueous phosphatidylcholine dispersions (1061) 33
Snape, S. and Simpson, R.J.
Iron binding to, and release from, the basolateral membrane of mouse duodenal enterocytes (1074) 159
Snowden, C.D., see Rikans, L.E. (1074) 195
Sobrino, F., see Martín, F. (1091) 110
Sobrino, F., see Moreno-Aurioles, V.R. (1091) 96
Soedjak, H.S. and Butler, A.
Mechanism of dioxygen formation catalyzed by vanadium bro-

moperoxidase from *Macrocystis pyrifera* and *Fucus distichus*: steady state kinetic analysis and comparison to the mechanism of V-BrPO from *Ascophyllum nodosum* (1079) 1
Söhlemann, P., Oeckl, C. and Michel, H.
Expression in *Escherichia coli* of the genes coding for reaction center subunits from *Rhodobacter sphaeroides*: wild-type proteins and fusion proteins containing one or four truncated domains from *Staphylococcus aureus* protein A at the carboxy-terminus (1089) 103
Sokolova, A.E., see Tatulian, S.A. (1070) 143
Sola, M.M., Langan, T. and Cohen, P.
p34cdc2 phosphorylation sites in histone H1 are dephosphorylated by protein phosphatase $2A_1$ (1094) 211
Solar, I., Muller-Eberhard, U., Shviro, Y. and Shaklai, N.
Long-term intercalation of residual hemin in erythrocyte membranes distorts the cell (1062) 51
Soldati, D., see Gruber, A. (1088) 151
Soler, C., Poveda, B., Pastor-Anglada, M. and Soley, M.
Effect of epidermal growth factor (EGF) on gluconeogenesis in isolated rat hepatocytes. Dependency on the red-ox state of the substrate (1091) 193
Soler, P., see Clerici, C. (1063) 27
Soley, M., see Soler, C. (1091) 193
Soliman, A., see Hammarström, A. (1080) 259
Solomon, A.K., see Toon, M.R. (1063) 179
Solovyev, V.V., see Seledtsov, I.A. (1089) 367
Solovyov, V.V., see Rogozin, I.B. (1089) 175
Solsona, C., Saltó, C. and Ymbern, A.
Effects of potassium depolarization on intracellular compartmentalization of ATP in cholinergic synaptosomes isolated from *Torpedo* electric organ (1095) 57
Somerville, C.R., see Ohlrogge, J.B. (1082) 1
Sommergruber, W., see Adolf, G.R. (1089) 167
Sonar, S.M. and Singh, A.K.
Location of lysine-129 and lysine-40/41 with respect to retinylidene chromophore in bacteriorhodopsin (1076) 239
Sone, N., see Harada, M. (1056) 279
Song, L., Ahkong, Q.F., Georgescauld, D. and Lucy, J.A.
Membrane fusion without cytoplasmic fusion (hemi-fusion) in erythrocytes that are subjected to electrical breakdown (1065) 54
Song, W., see McKenna, C.E. (1075) 109
Sonku, N., see Itonori, S. (1081) 321
Sono, H., Sonoda, Y. and Sato, Y.
Purification and characterization of cytochrome $P\text{-}450_{14DM}$ (lanosterol 14α-demethylase) from pig liver microsomes (1078) 388
Sono, M., Hager, L.P. and Dawson, J.H.
Electron paramagnetic resonance investigations of exogenous ligand complexes of low-spin ferric chloroperoxidase: further support for endogenous thiolate ligation to the heme iron (1078) 351
Sono, M., see Bracete, A.M. (1080) 264
Sonoda, Y., see Aoyama, Y. (1081) 262
Sonoda, Y., see Sono, H. (1078) 388
Sonoike, K., see Enami, I. (1060) 224
Sorette, M.P., see Chen, M.-j. (1066) 193
Sorio, C., see Berton, G. (1091) 101
Sosio, M., Lorenzetti, R., Robbiati, F. and Denaro, M.
Nucleotide sequence to a teicoplanin resistance gene from *Actinoplanes teichomyceticus* (1089) 401
Soslau, G., see Kosovsky, M.J. (1078) 56
Sotiroudis, T.G., see Zevgolis, V.G. (1091) 222
Sottrup-Jensen, L., see Christensen, U. (1076) 91
Souppe, J., see Urrutigoïty, M. (1079) 209
Sourlingas, T.G., Aleporou-Marinou, V., Pataryas, T.A. and Sekeri-Pataryas, K.E.
Influence of chlorambucil, a bifunctional alkylating agent, on the histone variant biosynthesis of HEp-2 cells (1092) 298
Soute, B.A.M., Budé, R. and Vermeer, C.
Vitamin K-dependent carboxylation of poly-L-glutamate (1073) 434
Spach, G., see Molle, G. (1064) 365
Spach, P.I., Herbert, J.S. and Cunningham, C.C.
The interaction between chronic ethanol consumption and oxygen tension in influencing the energy state of rat liver (1056) 40
Spagnuolo, C., D'Alessandro, R. and Chiancone, E.
Dimeric and tetrameric hemoglobins from the mollusc *Scapharca inaequivalvis*. Reaction of the oxidized derivatives with azide and fluoride (1074) 270
Spano, A.J. and Timko, M.P.
Isolation, characterization and partial amino acid sequence of a chloroplast-localized porphobilinogen deaminase from pea (*Pisum sativum* L.) (1076) 29
Sparatore, B., see Salamino, F. (1096) 265
Specht, K.G. and Rodgers, M.A.J.
Plasma membrane depolarization and calcium influx during cell injury by photodynamic action (1070) 60
Spector, A.A., see Gordon, J.A. (1085) 21
Spence, M.W., see George, T.P. (1084) 185
Spencer, D.P., see Halpern, H.J. (1093) 121
Spencer, G.G., Yu, X., Khan, I. and Grover, A.K.
Expression of isoforms of internal Ca^{2+} pump in cardiac, smooth muscle and non-muscle tissues (1063) 15
Spencer, P., Scawen, M.D., Atkinson, T. and Gore, M.G.
The identification of a structurally important cysteine residue in the glycerol dehydrogenase from *Bacillus stearothermophilus* (1073) 386
Speth, M. and Schulze, H.-U.
Modulation of the activity of hepatic glucose-6-phosphatase by methylthioadenosine sulfoxide (1068) 217
Spiekstra, A., see Kersten, G.F.A. (1062) 165
Spiering, M., see Wolters, H. (1069) 61
Spiess, B., see Schmitt, L. (1075) 139
Spitzer, J.A., see Rodriguez de Turco, E.B. (1093) 216
Sprecher, H., see Kühn, H. (1081) 129
Sprecher, H., see MacDonald, J.I.S. (1084) 105
Sprecher, H., see Rosenthal, M.D. (1083) 29
Sprecher, H.W., see Oliw, E.H. (1086) 287
Spremulli, L.L., see Kumazawa, Y. (1090) 167
Spruijt, R.B., Böhmer, M.R., Wilschut, J. and Hemminga, M.A.
Interaction of non-enveloped plant viruses and their viral coat proteins with phospholipid vesicles (1065) 217
Spruijt, R.B., see Sanders, J.C. (1066) 102
Srebreva, L., see Banchev, T. (1073) 230
Srinivasan, R.
Characterization of the general anion-binding site in glutamate dehydrogenase-NADPH complex (1073) 18
Srinivasan, R., see Morrow, M.R. (1070) 209
Srinivasan, S.R., see Vijayagopal, P. (1092) 291
Srinivasan, S.R., Vijayagopal, P., Eberle, K., Radhakrishnamurthy, B. and Berenson, G.S.
Interaction of a high-affinity heparin subfraction with low-density lipoprotein stimulates cholesteryl ester accumulation in mouse macrophages (1081) 188
Sripada, P.K., see Maulik, P.R. (1062) 211
Srivastava, R.A.K., Pfleger, B.A. and Schonfeld, G.
Expression of LDL receptor, apolipoprotein B, apolipoprotein A-I and apolipoprotein A-IV mRNA in various mouse organs as determined by a novel RNA-excess solution hybridization assay (1090) 95
Srivastava, R.A.K., Tang, S.J.J., Pfleger, B.A., Kitchens, R.T. and Schonfeld, G.
In vivo regulation of low-density lipoprotein receptor and apolipoprotein B gene expressions by dietary fat and cholesterol in inbred strains of mice (1086) 29

Srivastava, S.K., see Bhatnagar, A. (1077) 180
St-Jean, P., see Côté, Y.P. (1078) 187
Staels, B., Van Tol, A., Jansen, H. and Auwerx, J.
The effects of probucol on lipoprotein metabolism in the rat (1085) 131
Stams, A.J.M., see Houwen, F.P. (1056) 126
Stange, E.F., see Reimann, F.M. (1085) 315
Stange, E.F., see Rogler, G. (1095) 30
Stankovic, C.J., Heinemann, S.H. and Schreiber, S.L.
Photo-modulated ion channels based on covalently linked gramicidins (1061) 163
Stankowski, S., Pawlak, M., Kaisheva, E., Robert, C.H. and Schwarz, G.
A combined study of aggregation, membrane affinity and pore activity of natural and modified melittin (1069) 77
Stankowski, S., Wey, J., Kalb, E. and Goundis, D.
Membrane interaction of 'peptide P' derived from the repeating motif of properdin (1068) 61
Stankowski, S., see Pawlak, M. (1062) 94
Starikova, M.G., see Nupenko, E.V. (1091) 213
Stark, G.
The effect of ionizing radiation on lipid membranes (1071) 103
Stark, G., see Barth, C. (1066) 54
Stark, M.J.R., see Da Cruz e Silva, E.F. (1089) 269
Staron, K., Kowalska-Loth, B., Czerwinski, R.M., Bandorowska, J. and Guberska, J.
Topoisomerase I in actively growing plasmodia and during differentiation of the slime mold *Physarum polycephalum* (1088) 36
Staskus, K., see Woffendin, C. (1090) 81
Staves, M.P., see Lacey, J.C. (1076) 395
St. Clair, R.W., see Reagan, Jr., J.W. (1081) 202
Steels, P., see Granitzer, M. (1066) 111
Steen, A.-M., Sahlén, S. and Lambert, B.
Expression of the hypoxanthine phosphoribosyl transferase gene in resting and growth-stimulated human lymphocytes (1088) 77
Stefanova, H.I., East, J.M. and Lee, A.G.
Covalent and non-covalent inhibitors of the phosphate transporter of sarcoplasmic reticulum (1064) 321
Stefanova, H.I., Jane, S.D., East, J.M. and Lee, A.G.
Effects of Mg^{2+} and ATP on the phosphate transporter of sarcoplasmic reticulum (1064) 329
Steffen, M.A., see Gottfried, D.S. (1059) 76
Steffgen, J., Koepsell, H. and Schwarz, W.
Endogenous L-glutamate transport in oocytes of *Xenopus laevis* (1066) 14
Steffgen, J., see Weber, W.-M. (1063) 73
Stein, I., see Knox, R. (1083) 65
Stein, M.R., see Hoffman, L.M. (1084) 94
Stein, O., Dabach, Y., Hollander, G. and Stein, Y.
Removal of cholesteryl ester from hepatic reticuloendothelial cells in vivo is not enhanced by plasma cholesteryl ester transfer protein (1081) 238
Stein, O., Shiloni, E. and Stein, Y.
Effect of TNF on triacylglycerol in cultured vascular smooth muscle cells (1082) 33
Stein, O., see Friedman, G. (1082) 27
Stein, O., see Friedman, G. (1089) 83
Stein, O., see Stein, Y. (1084) 87
Stein, R.B., see Bednar, D.L. (1092) 226
Stein, Y., Oette, K., Dabach, Y., Hollander, G., Ben-Naim, M. and Stein, O.
Metabolism of 3-[^{3}H]sphingosine sphingomyelin labeled with [^{14}C]palmitic or [^{14}C]linoleic acid by Hep G_2 cells and rat liver in vivo (1084) 87
Stein, Y., see Friedman, G. (1082) 27
Stein, Y., see Friedman, G. (1089) 83
Stein, Y., see Stein, O. (1081) 238
Stein, Y., see Stein, O. (1082) 33
Steinberg, M.I., see Pratap, P.R. (1069) 288
Steinmetz, A., see Bard, J.M. (1082) 170
Steinmetz, W., see Compadre, C.M. (1079) 43
Steinsapir, J., Mora, G. and Muldoon, T.G.
Effects of steroidal and non-steroidal antiandrogens on the androgen binding properties of the rat ventral prostate androgen receptor (1094) 103
Steinschneider, A., Khan, I. and Gibori, G.
Inhibition and stimulation of rat luteal protein phosphorylation by protein kinase effectors (1093) 102
Stemler, A., see Jursinic, P.A. (1059) 312
Stephens, P.E., see Kille, P. (1089) 407
Sternberg, B., see Dempsey, C.E. (1061) 175
Sternberg, B., see Niedermann, G. (1070) 401
Stevenson, T., see Mercer, J.F.B. (1097) 205
Stieger, S., see Jäger, K. (1074) 45
Stierli, J., see Fawer, M.S. (1076) 15
Stillman, T.J., see Lilley, K.S. (1080) 191
Stio, M., see Vincenzini, M.T. (1073) 571
Stirpe, F., see Bolognesi, A. (1087) 293
Stjernborg, L., Heby, O., Holm, I. and Persson, L.
On the translational control of ornithine decarboxylase expression by polyamines (1090) 188
Stocco, D.M., see Chaudhary, L.R. (1094) 175
Stockbridge, L.L., French, A.S. and Man, S.F.P.
Subconductance states in calcium-activated potassium channels from canine airway smooth muscle (1064) 212
Stocker, J.W., see Gottfried, D.S. (1059) 63
Stocks, J., see Li, S.-R. (1097) 293
Stöffler, G., see Haas, H. (1074) 392
Stöffler, G., see Schinkinger, M.F. (1073) 142
Stojan, J. and Pavlič, M.R.
On the inhibition of cholinesterase by D-tubocurarine (1079) 96
Stoker, M. and Gherardi, E.
Regulation of cell movement: the motogenic cytokines (1072) 81
Stolz, A., see Takikawa, H. (1084) 247
Stoppini, M., see Bellotti, V. (1097) 177
Storch, T.G., see Sullivan, D.E. (1090) 17
Storey, K.B., see Brooks, S.P.J. (1073) 253
Storti, R.V., see Lichter, J.B. (1088) 419
Stotz, H., see Van Weely, S. (1096) 301
Stow, M.W. and Warr, J.R.
Amplification and expression of *mdr* genes and flanking sequences in verapamil hypersensitive hamster cell lines (1092) 7
Strassheim, D., Palmer, T. and Houslay, M.D.
Genetically acquired diabetes: adipocyte guanine nucleotide regulatory protein expression and adenylate cyclase regulation (1096) 121
Stratowa, C., see Hiebl-Dirschmied, C.M. (1090) 123
Strauss, A.W., see Payne, R.M. (1089) 352
Strehler, E.E., see Koller, M. (1087) 180
Streichman, S., Kahana, E. and Silver, B.L.
EPR study of the hydrophobic interaction of spectrin with fatty acids (1066) 9
Streichman, S., see Kahana, E. (1066) 1
Streichman, S., see Kahana, E. (1066) 6
Stremmel, W., see Lenzen, R. (1074) 406
Streshinskaya, G.M., see Tul'skaya, E.M. (1074) 237
Strickland, M.S., see Tsao, F.H.C. (1081) 141
Strijland, A., see Heikoop, J.C. (1097) 62
Strittmatter, W.J., see Lennarz, W.J. (1071) 149
Strohmeyer, G., see Lenzen, R. (1074) 406
Strom, M., Krisinger, J. and DeLuca, H.F.
Isolation of a mRNA that encodes a putative intestinal alkaline phosphatase regulated by 1,25-dihydroxyvitamin D-3 (1090) 299
Strom, R., see Caiafa, P. (1090) 38

Struck, A., Müller, A. and Scheer, H.
Modified bacterial reaction centers. 4. The borohydride treatment reinvestigated: comparison with selective exchange experiments at binding sites $B_{A,B}$ and $H_{A,B}$ (1060) 262
Struve, W.S., see Lin, S. (1060) 13
Strzałka, K., see Gruszecki, W.I. (1060) 310
Stuart, M.C.A., see Frederik, P.M. (1062) 133
Stuart, W.D., see Diccianni, M.B. (1082) 85
Stubbs, C.D., Kisielewski, A.E. and Rubin, E.
Chronic ethanol ingestion modifies liver microsomal phosphatidylserine inducing resistance to hydrolysis by exogenous phospholipase A_2 (1070) 349
Sturani, E., see Morello, L. (1092) 397
Sturani, E., see Peres, A. (1092) 89
Sturgill, T.W. and Wu, J.
Recent progress in characterization of protein kinase cascades for phosphorylation of ribosomal protein S6 (1092) 350
Stutchfield, J., see Nielson, C.P. (1095) 83
Stutz, E., see Bonny, C. (1089) 213
Su, N., see Narayanan, N. (1070) 83
Suárez, G., Maturana, J., Oronsky, A.L. and Raventós-Suárez, C.
Fructose-induced fluorescence generation of reductively methylated glycated bovine serum albumin: Evidence for nonenzymatic glycation of Amadori adducts (1075) 12
Subbarao, N.K., MacDonald, R.I., Takeshita, K. and MacDonald, R.C.
Characteristics of spectrin-induced leakage of extruded, phosphatidylserine vesicles (1063) 147
Subbarao, N.K., see MacDonald, R.C. (1061) 297
Subbiah, M.T.R., see Maruyama, K. (1070) 246
Subczynski, W.K., Markowska, E. and Sielewiesiuk, J.
Effect of polar carotenoids on the oxygen diffusion-concentration product in lipid bilayers. An EPR spin label study (1068) 68
Subrahmanyam, G., see Jenkins, G.H. (1080) 11
Sudaka, P., see Gérardi-Laffin, C. (1063) 21
Sud'ina, G.F., Tatarintsev, A.V., Koshkin, A.A., Zaitsev, S.V., Fedorov, N.A. and Varfolomeev, S.D.
The role of adhesive interactions and extracellular matrix fibronectin from human polymorphonuclear leukocytes in the respiratory burst (1091) 257
Suehisa, H., see Kimura, Y. (1075) 6
Suezaki, Y., Tamura, K., Takasaki, M., Kamaya, H. and Ueda, I.
A statistical mechanical analysis of the effect of long-chain alcohols and high pressure upon the phase transition temperature of lipid bilayer membranes (1066) 225
Suga, T., see Yamada, J. (1092) 233
Sugai, S., see Tsuge, H. (1078) 77
Sugano, N., see Hibino, Y. (1088) 305
Sugimoto, A., see Okamura, Y. (1073) 538
Sugioka, Y. and Suzuki, M.
The chemical basis for the ferriprotoporphyrin IX-chloroquine complex induced lipid peroxidation (1074) 19
Sugita, H., see Tanabe, H. (1094) 281
Sugita, H., see Tsukahara, T. (1079) 273
Sugita, M., see Itonori, S. (1081) 321
Sugita, Y., see Nakano, Y. (1074) 326
Sugita, Y., see Sato, H. (1069) 46
Suketa, Y., see Harada, H. (1092) 404
Suketa, Y., see Takagi, K. (1092) 15
Sukharev, S., see Titomirov, A.V. (1088) 131
Sukhova, N.M., see Čénas, N.K. (1073) 195
Sulimovici, S., see Kalbag, S.S. (1094) 85
Sullivan, D.E. and Storch, T.G.
Tissue- and development-specific expression of HBGF-1 mRNA (1090) 17
Sulpice, J.-C., see Gascard, P. (1069) 27
Sumegi, B., Porpaczy, Z. and Alkonyi, I.
Kinetic advantage of the interaction between the fatty acid β-oxidation enzymes and the complexes of the respiratory chain (1081) 121
Sumizawa, T., see Ichikawa, M. (1073) 309
Summers, B., Al-Hassan, J.M., Thomson, M., Chun, A. and Criddle, R.S.
Platelet activating factors (AGEPC) from epidermal secretions of the Arabian Gulf catfish, *Arius bilineatus*, which stimulate wound healing (1091) 329
Summers, E.F., see Gaynor, P.M. (1090) 326
Sumner, M.T., see Timbs, M.M. (1064) 219
Sun, X.-p., see Zhu, J.-d. (1089) 158
Sunahara, R.K., see Tuana, B.S. (1091) 236
Sundari, C.S., Raman, B. and Balasubramanian, D.
Hydrophobic surfaces in oligosaccharides: linear dextrins are amphiphilic chains (1065) 35
Sundqvist, C., see Morré, D.J. (1070) 437
Sung, C.-M., see Winkler, J.D. (1081) 339
Suno, M., see Nishi, N. (1095) 268
Surholt, B., Goldberg, J., Schulz, T.K.F., Beenakkers, A.M.T. and Van der Horst, D.J.
Lipoproteins act as a reusable shuttle for lipid transport in the flying death's-head hawkmoth, *Acherontia atropos* (1086) 15
Surtel, D.A.M., see Vork, M.M. (1075) 199
Sussenbach, J.S., see Holthuizen, P. (1087) 341
Suszkiw, J.B., see Tomsig, J.L. (1069) 197
Suttie, J.W., see Engelke, J.A. (1078) 31
Sutton, G.C., Russell, N.J. and Quinn, P.J.
The effect of salinity on the phase behaviour of total lipid extracts and binary mixtures of the major phospholipids isolated from a moderately halophilic eubacterium (1061) 235
Suwabe, A., see McCormack, F.X. (1087) 190
Suzuki, A., see Nishimura, K. (1086) 141
Suzuki, H., see Berton, G. (1091) 101
Suzuki, H., see Matsuda, S. (1084) 202
Suzuki, H., see Ohno, K. (1090) 9
Suzuki, K., see Ishida, S. (1088) 436
Suzuki, M., see Sugioka, Y. (1074) 19
Suzuki, M., see Tada, M. (1090) 29
Suzuki, N., Kobayashi, M., Sakata, K., Suzuki, T. and Hosoya, T.
Synergistic stimulatory effect of glucocorticoid, EGF and insulin on the synthesis of ribosomal RNA and phosphorylation of nucleolin in primary cultured rat hepatocytes (1092) 367
Suzuki, S., Kaneko, M., Chapman, D.C. and Dhalla, N.S.
Alterations in cardiac contractile proteins due to oxygen free radicals (1074) 95
Suzuki, S., see Iwasaki, H. (1058) 79
Suzuki, T., see Suzuki, N. (1092) 367
Suzuki, T., see Tsuzuki, W. (1083) 201
Svennerholm, L., see Gottfries, J. (1081) 253
Svennerholm, L., see Percy, P. (1084) 173
Svennerholm, L., see Van Weely, S. (1096) 301
Svensson, B., see Desseaux, V. (1080) 237
Svensson, P., Andreasson, E. and Albertsson, P.-Å.
Heterogeneity among Photosystem I (1060) 45
Svetashev, V.I., see Vysotskii, M.V. (1083) 161
Svitkina, T.M., see Popov, S.V. (1066) 151
Svoboda, M., see Winand, J. (1080) 181
Swaney, J.B., see Bonomo, E.A. (1082) 265
Swarts, H.G.P., Van Uem, T.J.F., Hoving, S., Fransen, J.A.M. and De Pont, J.J.H.H.M.
Effect of free fatty acids and detergents on H,K-ATPase. The steady-state ATP phosphorylation level and the orientation of the enzyme in membrane preparations (1070) 283
Swarts, H.G.P., see Van der Hijden, H.T.W.M. (1061) 141

Swartz, H., see Sentjurc, M. (1073) 329
Sweiry, J.H., Emery, P.W., Muñoz, M., Doolabh, K. and Mann, G.E.
Influx and incorporation into protein of L-phenylalanine in the perfused rat pancreas: effects of amino acid deprivation and carbachol (1070) 135
Sweiry, J.H., see Sastre, J. (1065) 213
Swenson, R.P., see Helms, L.R. (1089) 417
Swords, N.A. and Wallace, B.A.
Protein–chromophore interactions in bacteriorhodopsin: the effects of a change in surface potential (1070) 313
Syha-Jedelhauser, J., Wendling, U. and Reske, K.
Complete coding nucleotide sequence of cDNA for the class II RT1.B β^1 chain of the Lewis rat (1089) 414
Sykes, J.E.C., see Lageweg, W. (1085) 381
Syme, P.D., Brunotte, F., Green, Y., Aronson, J.K. and Radda, G.K.
The effect of β_2-adrenoceptor stimulation and blockade of L-type calcium channels on in vivo Na^+/H^+ antiporter activity in rat skeletal muscle (1093) 234
Syrykh, A.G., see Tatulian, S.A. (1070) 143
Sytnik, A.I., Chumachenko, Y.V. and Demchenko, A.P.
Spectroscopic evidence for NADH-induced conformational changes in rabbit muscle aldolase (1079) 123
Szabó, G., see Tóth, G. (1063) 247
Szewczyk, A., Claeys, D., Mertens, W. and Azzi, A.
Azido derivative of tricarboxylic acid for photoaffinity labeling (1073) 209
Szolderits, G., Daum, G., Paltauf, F. and Hermetter, A.
Protein-catalyzed transport of ether phospholipids (1063) 197
Szolderits, G., see Lafer, G. (1069) 139
Szymańska, G., Kim, H.W. and Kranias, E.G.
Reconstitution of the skeletal sarcoplasmic reticulum Ca^{2+}-pump: influence of negatively charged phospholipids (1091) 127
Szymańska, G., Pikuła, S. and Zborowski, J.
Effect of hyper- and hypothyroidism on phospholipid fatty acid composition and phospholipases activity in sarcolemma of rabbit cardiac muscle (1083) 265

T

Taanman, J.-W., Schrage, C., Bokma, E., Reuvekamp, R., Agsteribbe, E. and De Vries, H.
Nucleotide sequence of the last exon of the gene for human cytochrome *c* oxidase subunit VIb and its flanking regions (1089) 283
Tabacik, C., see Aliau, S. (1085) 350
Tabatabai, L., see Davis, T.R. (1095) 145
Tabernero Urbieta, A., see Marín, J.J.G. (1061) 9
Tabony, J. and Perly, B.
Quasielastic neutron scattering measurements of fast local translational diffusion of lipid molecules in phospholipid bilayers (1063) 67
Tachibana, M., see Nomura, T. (1092) 94
Tacnet, F., Watkins, D.W. and Ripoche, P.
Zinc binding in intestinal brush-border membrane isolated from pig (1063) 51
Tada, M., Ikeda, S., Suzuki, M., Minoura, Y., Kojima, M. and Morita, T.
Spectrophotometrical and immunochemical studies on the conformational changes in poly(dG-dC) · poly(dG-dC) after modification by 4-hydroxyaminoquinoline 1-oxide (1090) 29
Taeusch, H.W., see Amirkhanian, J.D. (1096) 355
Tager, J.M., see Bout, A. (1090) 43
Tager, J.M., see Heikoop, J.C. (1097) 62
Tager, J.M., see Van Weely, S. (1096) 301
Tager, J.M., see Wiemer, E.A.C. (1097) 232
Tager, J.M., see Wolvetang, E.J. (1095) 122
Taguchi, T., see Ide, T. (1067) 213
Tahiliani, A.G.
Evidence for net uptake and efflux of mitochondrial coenzyme A (1067) 29
Taira, Y., see Panagia, V. (1064) 242
Tajmir-Riahi, H.-A.
Interaction of adenylic acid with alkaline earth metal ions in the crystalline solid and aqueous solution. Evidence for the sugar C_2'-endo/anti, C_3'-endo/anti and C_4'-exo/anti conformational changes (1087) 49
Takabe, T., see Iwasaki, Y. (1059) 141
Takada, A., see Urano, T. (1077) 245
Takada, J. and Fukushima, Y.
Rapid inhibition of the K^+-sensitive phosphoenzyme of Na^+/K^+-ATPase by (*Z*)-5-methyl-2-[2-(1-naphthyl)ethenyl]-4-piperidinopyridine (1065) 153
Takada, Y., see Urano, T. (1077) 245
Takagi, K., Nakagami, H., Nakano, T. and Suketa, Y.
Induction of nitrite production in mouse spleen cells by immunization (1092) 15
Takagi, S., see Kimura, Y. (1075) 6
Takagi, T., see Lundahl, P. (1067) 177
Takahama, U., see Jan, C.-Y. (1086) 7
Takahashi, A., see Ikehara, T. (1068) 87
Takahashi, A., see Ohno, K. (1090) 9
Takahashi, H., Matuoka, S., Kato, S., Ohki, K. and Hatta, I.
Electrostatic interaction of poly(L-lysine) with dipalmitoylphosphatidic acid studied by X-ray diffraction (1069) 229
Takahashi, H., see Iizuka, H. (1093) 95
Takahashi, H., see Kubota, Y. (1079) 73
Takahashi, H., see Tanaka, K. (1089) 113
Takahashi, K., see Ikejiri, K. (1089) 77
Takahashi, K., see Mokuno, H. (1082) 63
Takahashi, M. and Asada, K.
Determination of the molecular size of the binding site for the manganese-stabilizing 33 kDa protein in Photosystem II membranes (1059) 361
Takahashi, M., Banno, Y., Shikano, Y., Mori, S. and Nozawa, Y.
Purification and characterization of lysophospholipase-transacylase of pathogenic fungus *Candida albicans* (1082) 161
Takahashi, M., see Noda, K. (1079) 112
Takahashi, N., see Hirai, H. (1090) 305
Takahashi, S., Hashida, K., Yatsunami, K., Fukui, T., Negishi, M., Katada, T., Ui, M., Kanaho, Y., Asano, T. and Ichikawa, A.
Characterization of cytosolic pertussis toxin-sensitive GTP-binding protein in mastocytoma P-815 cells (1093) 207
Takahashi, Y., see Hada, T. (1083) 89
Takaishi, Y., see Matsuzaki, K. (1070) 419
Takaku, F., see Mokuno, H. (1082) 63
Takaku, F., see Shimano, H. (1086) 245
Takaku, F., see Shimano, H. (1090) 91
Takakura, Y., Kuentzel, S.L., Raub, T.J., Davies, A., Baldwin, S.A. and Borchardt, R.T.
Hexose uptake in primary cultures of bovine brain microvessel endothetial cells. I. Basic characteristics and effects of D-glucose and insulin (1070) 1
Takakura, Y., Trammel, A.M., Kuentzel, S.L., Raub, T.J., Davies, A., Baldwin, S.A. and Borchardt, R.T.
Hexose uptake in primary cultures of bovine brain microvessel endothelial cells. II. Effects of conditioned media from astroglial and glioma cells (1070) 11
Takano, T., see Imanaka, T. (1062) 264

Takanohashi, Y., see Funaki, T. (1078) 43
Takasaki, M., see Suezaki, Y. (1066) 225
Takasu, N., see Kurihara, H. (1082) 285
Takasuga, H., see Nishi, N. (1095) 268
Takatsuki, K., see Murakami, T. (1079) 279
Takayanagi, T., Ajisaka, K., Takiguchi, Y. and Shimahara, K.
Isolation and characterization of thermostable chitinases from *Bacillus licheniformis* X-7u (1078) 404
Takemori, S., see Higuchi, A. (1084) 240
Takemura, H., see Tamaki, T. (1088) 292
Takemura, T., see Takikawa, H. (1091) 173
Takenaga, K., Nakamura, Y., Kageyama, H. and Sakiyama, S.
Nucleotide sequence of cDNA for nonmuscle tropomyosin 5 of mouse fibroblast (1087) 101
Takenaka, T., see Matsuzaki, K. (1070) 419
Takenawa, T., see Gascard, P. (1069) 27
Takeshige, K., see Aoyagi, K. (1093) 223
Takeshige, K., see Kwak, J.Y. (1076) 369
Takeshita, K., see MacDonald, R.C. (1061) 297
Takeshita, K., see Subbarao, N.K. (1063) 147
Taketani, S., see Bannai, S. (1092) 175
Takeuchi, H., Harada, I. and Yoshida, H.
Raman spectroscopic study on the structure of ribonuclease F_1 and the binding mode of inhibitor (1078) 307
Takeyama, Y., see Asada, H. (1080) 34
Takiguchi, Y., see Takayanagi, T. (1078) 404
Takikawa, H., Fernandez-Checa, J.C., Kuhlenkamp, J., Stolz, A., Ookhtens, M. and Kaplowitz, N.
Effect of indomethacin on the uptake, metabolism and excretion of 3-oxocholic acid: studies in isolated hepatocytes and perfused rat liver (1084) 247
Takikawa, H., Ohki, H., Sano, N., Kasama, T. and Yamanaka, M.
Cholestasis induced by lithocholate and its glucuronide: their biliary excretion and metabolism (1081) 39
Takikawa, H., Tomita, J., Takemura, T. and Yamanaka, M.
Cytotoxic effect and uptake mechanism by isolated rat hepatocytes of lithocholate and its glucuronide and sulfate (1091) 173
Takrama, J.F. and Graves, D.J.
Solution conformations of the N-terminal CNBr fragment of glycogen phosphorylase and its interaction with calmodulin (1077) 371
Tallarida, R.J., see Seal, G. (1097) 299
Talmon, Y., see Rotenberg, M. (1086) 265
Talmud, P., see Dunning, A.M. (1096) 231
Talpas, C.J., Walz, D.A. and Lee, L.
^{1}H-NMR studies of bovine platelet factor 4: histidine assignments and interactions with heparin (1078) 208
Tam, M.F., see Liu, L.-F. (1090) 343
Tamaki, H., Kumagai, H. and Tochikura, T.
Nucleotide sequence of the yeast glutathione *S*-transferase cDNA (1089) 276
Tamaki, T., Fukaya, M., Takemura, H., Tayama, K., Okumura, H., Kawamura, Y., Nishiyama, M., Horinouchi, S. and Beppu, T.
Cloning and sequencing of the gene cluster encoding two subunits of membrane-bound alcohol dehydrogenase from *Acetobacter polyoxogenes* (1088) 292
Tamiya-Koizumi, K., see Ishihara, H. (1084) 53
Tamm, L.K.
Membrane insertion and lateral mobility of synthetic amphiphilic signal peptides in lipid model membranes (1071) 123
Tamura, K., Kaminoh, Y., Kamaya, H. and Ueda, I.
High pressure antagonism of alcohol effects on the main phase-transition temperature of phospholipid membranes: biphasic response (1066) 219
Tamura, K., see Suezaki, Y. (1066) 225
Tamura, N., Kamachi, H., Hokari, N., Masumoto, H. and Inoué, H.
Photoactivation of the water-oxidizing complex of Photosystem II core complex depleted of functional Mn (1060) 51
Tamura, T., Lee, D.H., Osaka, F., Fujiwara, T., Shin, S., Chung, C.H., Tanaka, K. and Ichihara, A.
Molecular cloning and sequence analysis of cDNAs for five major subunits of human proteasomes (multi-catalytic proteinase complexes) (1089) 95
Tamura, T., see Iizuka, H. (1093) 95
Tamura, Y., see Igeta, H. (1079) 303
Tamura, Y., see Watanabe, F. (1075) 36
Tan, S.T., see Chen, J.H. (1087) 309
Tanabe, H., Kumagai, N., Tsukahara, T., Ishiura, S., Kominami, E., Nishina, H. and Sugita, H.
Changes of lysosomal proteinase activities and their expression in rat cultured keratinocytes during differentiation (1094) 281
Tanaka, A., see Ohta, M. (1078) 395
Tanaka, H., see Shibuya, Y. (1097) 23
Tanaka, K. and Takahashi, H.
Cloning and analysis of the gene (*rpoDA*) for the principal σ factor of *Pseudomonas aeruginosa* (1089) 113
Tanaka, K., see Tamura, T. (1089) 95
Tanaka, M., Minoura, H., Ushiro, H. and Nakashima, K.
A novel cDNA clone encoding a prolactin-like protein that lacks the two C-terminal cysteine residues isolated from bovine placenta (1088) 385
Tanaka, M., Muto, N. and Yamamoto, I.
Characterization of *Bacillus stearothermophilus* cyclodextrin glucanotransferase in ascorbic acid 2-*O*-α-glucoside formation (1078) 127
Tanaka, M., see Ohno, K. (1090) 9
Tanaka, M., see Yamakawa, M. (1087) 247
Tanaka, T., see Kenmochi, N. (1088) 445
Tanfani, F., see Wozniak, M. (1082) 94
Tang, S.J.J., see Srivastava, R.A.K. (1086) 29
Tani, T., Le Quellec, A., Jarrousse, C., Sladeczek, F., Martinez, J., Estival, A., Pradayrol, L. and Bataille, D.
Oxyntomodulin and related peptides control somatostatin secretion in RIN T3 cells (1095) 249
Tani, T., see Watanabe, S. (1073) 275
Taniguchi, S., see Nohno, T. (1089) 273
Taniguchi, S., see Watanabe, T. (1074) 398
Taniguchi, T., see Tomoda, T. (1088) 359
Taniguchi, Y., see Tsukamoto, I. (1079) 348
Tanimoto, T., see Nishimura, C. (1078) 171
Tanimoto, T., see Ohta, M. (1078) 395
Taquet, A.N., see Claes, V. (1087) 339
Taraschi, T.F., see Ellingson, J.S. (1062) 199
Tarchevsky, I.A., see Grechkin, A.N. (1081) 79
Tarcsa, E., see Harsfalvi, J. (1073) 268
Tarshis, M., see Salman, M. (1063) 209
Tarvin, J.T., see Reinach, P.S. (1066) 115
Tas, P.W.L. and Koschel, K.
Volatile anesthetics stimulate the phorbol ester evoked neurotransmitter release from PC12 cells through an increase of the cytoplasmic Ca^{2+} ion concentration (1091) 401
Tashiro, M., see Ohno, K. (1090) 9
Tatarintsev, A.V., see Sud'ina, G.F. (1091) 257
Tatulian, S.A., Gordeliy, V.I., Sokolova, A.E. and Syrykh, A.G.
A neutron diffraction study of the influence of ions on phospholipid membrane interactions (1070) 143
Tauber, A.I., see Oshry, L. (1066) 239
Tauc, M., see Merot, J. (1070) 387
Tavakkol, A.
Molecular cloning of porcine α_1-microglobulin/HI-30 reveals developmental and tissue-specific expression of two variant messenger ribonucleic acids (1088) 47

Tawara, E. and Kamo, N.
Glucose transport of *Haloferax volcanii* requires the Na^+-electrochemical potential gradient and inhibitors for the mammalian glucose transporter inhibit the transport (1070) 293
Tayama, K., see Tamaki, T. (1088) 292
Taylor, D., see Misra, M. (1077) 107
Taylor, D.M., see Morgan, H. (1062) 149
Taylor, J.J., see Middleton, P.G. (1090) 109
Taylor, K., see Misra, M. (1077) 107
Taylor, K.A., see Varga, S. (1070) 374
Taylor, L., see Morrow, M.R. (1070) 209
Taylor, P.M., see Hundal, H.S. (1092) 376
Tchoupé, J.R., Moreau, T., Gauthier, F. and Bieth, J.G.
Photometric or fluorometric assay of cathepsin B, L and H and papain using substrates with an aminotrifluoromethylcoumarin leaving group (1076) 149
Tebo, J.M. and Mortensen, R.F.
Internalization and degradation of receptor bound C-reactive protein by U-937 cells: induction of H_2O_2 production and tumoricidal activity (1095) 210
Te Brömmelstroet, B.W.J., Geerts, W.J., Keltjens, J.T., Van der Drift, C. and Vogels, G.D.
Purification and properties of 5,10-methylenetetrahydromethanopterin dehydrogenase and 5,10-methylenetetrahydromethanopterin reductase, two coenzyme F_{420}-dependent enzymes, from *Methanosarcina barkeri* (1079) 293
Te Brömmelstroet, B.W.J., Hensgens, C.M.H., Keltjens, J.T., Van der Drift, C. and Vogels, G.D.
Purification and characterization of coenzyme F_{420}-dependent 5,10-methylenetetrahydromethanopterin dehydrogenase from *Methanobacterium thermoautotrophicum* strain ΔH (1073) 77
Techel, D., see Pilatus, U. (1091) 349
Teicher, B.A., see Crawford, J.M. (1085) 223
Teissié, J., see Sixou, S. (1088) 135
Telfer, A., De Las Rivas, J. and Barber, J.
β-Carotene within the isolated Photosystem II reaction centre: photooxidation and irreversible bleaching of this chromophore by oxidised P680 (1060) 106
Teng, C.-M., see Huang, T.-F. (1074) 136
Teng, C.-M., see Huang, T.-F. (1074) 144
Teng, C.-M., see Liu, C.-S. (1077) 362
Tenhunen, J., see Pörn, M.I. (1093) 7
Tenkanen, H., see Ehnholm, C. (1086) 255
Terada, H., see Koike, H. (1060) 75
Teramoto, T., see Watanabe, T. (1074) 398
Terasaki, T., see Sato, H. (1073) 442
Tercé, F., Record, M., Tronchère, H., Ribbes, G. and Chap, H.
Cytidylyltransferase translocation onto endoplasmic reticulum and increased de novo synthesis without phosphatidylcholine accumulation in Krebs-II ascite cells (1084) 69
Termine, E., see Grataroli, R. (1082) 130
Terzuoli, L., see Pagani, R. (1077) 233
Tessari, M. and Rahamimoff, H.
Na^+-Ca^{2+} exchange activity in synaptic plasma membranes derived from the electric organ of *Torpedo ocellata* (1066) 208
Tessier, P., see Bouillon, M. (1097) 95
Tetsuka, T., see Tominaga, S.-i. (1090) 1
Tew, K.D., see Clapper, M.L. (1096) 209
Thach Van, T., see Tromp, M. (1079) 53
Thalmann, E. and Blaas, D.
Synthesis of γ-[4-(benzoylphenyl)methylamido]-7-methylguanosine 5′-triphosphate, a photoaffinity-label for cap-binding proteins (1088) 301
Thede, C., see Seeger, W. (1081) 45
Theg, S.M., see Renganathan, M. (1059) 16
Thelestam, M., Olofsson, A., Blomqvist, L. and Hebert, H.
Oligomerisation of cell-bound staphylococcal α-toxin in relation to membrane permeabilisation (1062) 245
Thelestam, M., see Florin, I. (1091) 51
Thériault, Y., see Bakan, D.A. (1079) 182
Thiagarajan, P., see Chen, C.S. (1075) 237
Thind, S.K., see Koul, H.K. (1064) 184
Thiry, M., Lecoq-Xhonneux, F., Dheur, I., Renard, A. and De Kinkelin, P.
Sequence of a cDNA carrying the glycoprotein gene and part of the matrix protein M2 gene of viral haemorrhagic scepticaemia virus, a fish rhabdovirus (1090) 345
Thiry, M., see Feller, G. (1088) 323
Thoene, J.G., see Pisoni, R.L. (1071) 351
Thomas, A.A.M., see Scheper, G.C. (1089) 220
Thomas, D., see Sanchez-Montero, J.M. (1078) 345
Thomas, G., see Ribeiro, A. (1086) 279
Thomas, L.M. and Holub, B.J.
Eicosanoid-dependent and -independent formation of individual [^{14}C]stearoyl-labelled lysophospholipids in collagen-stimulated human platelets (1081) 92
Thomas, R.D., see Lacey, J.C. (1076) 395
Thömmes, P., see Schray, B. (1087) 226
Thompson, A.R., see Titchen, D.A. (1089) 61
Thompson, E.O.P., see Titchen, D.A. (1089) 61
Thompson, J.A., see Forough, R. (1090) 293
Thompson, N.L., see Timbs, M.M. (1064) 219
Thompson, V.F., see Edmunds, T. (1077) 197
Thompson, W. and Belina, H.
Glycero-3-phosphate is a precursor of glucose but not of glycero-3-phosphocholine in rat liver (1083) 207
Thompson, W., see Veldhuizen, R.A.W. (1083) 211
Thomsen, D.R., see Meyer, A.L. (1090) 267
Thomson, A.B.R., Keelan, M. and Clandinin, M.T.
Feeding rats a diet enriched with saturated fatty acids prevents the inhibitory effects of acute and chronic ethanol exposure on the in vitro uptake of hexoses and lipids (1084) 122
Thomson, F.J., see MacEwan, D.J. (1094) 346
Thomson, M., see Summers, B. (1091) 329
Thuren, T., Sisson, P. and Waite, M.
Activation of hepatic lipase catalyzed phosphatidylcholine hydrolysis by apolipoprotein E (1083) 217
Thürk, M. and Porschke, D.
Phase transition of dimyristoylphosphatidylglycerol bilayers induced by electric field pulses (1067) 153
Thurn, L., see Lindström, M.B. (1084) 194
Thurnauer, M.C., see Budil, D.E. (1057) 1
Thurnhofer, H., Schnabel, J., Betz, M., Lipka, G., Pidgeon, C. and Hauser, H.
Cholesterol-transfer protein located in the intestinal brush-border membrane. Partial purification and characterization (1064) 275
Tian, Q., Katz, A.M. and Kim, D.H.
Effects of azumolene on doxorubicin-induced Ca^{2+} release from skeletal and cardiac muscle sarcoplasmic reticulum (1094) 27
Tiffany, C.W., Hoefler, S., Moser, H.W. and Burch, R.M.
Arachidonic acid metabolism in fibroblasts from patients with peroxisomal diseases: response to interleukin 1 (1096) 41
Tighe, O., see Owens, D. (1082) 303
Tijburg, L.B.M., Nishimaki-Mogami, T. and Vance, D.E.
Evidence that the rate of phosphatidylcholine catabolism is regulated in cultured rat hepatocytes (1085) 167
Tijburg, L.B.M., Samborski, R.W. and Vance, D.E.
Evidence that remodeling of the fatty acids of phosphatidylcholine is regulated in isolated rat hepatocytes and involves both the *sn*-1 and *sn*-2 positions (1085) 184
Tijburg, L.B.M. and Vance, D.E.

Head group specificity in the regulation of phosphatidylcholine catabolism in rat hepatocytes (1085) 178
Tilcock, C., see Senior, J. (1062) 77
Till, U., see Heller, R. (1093) 55
Timbs, M.M., Poglitsch, C.L., Pisarchick, M.L., Sumner, M.T. and Thompson, N.L.
Binding and mobility of anti-dinitrophenyl monoclonal antibodies on fluid-like, Langmuir-Blodgett phospholipid monolayers containing dinitrophenyl-conjugated phospholipids (1064) 219
Timko, M.P., see Spano, A.J. (1076) 29
Timmermans, J.A.H., Kaune, R., Bindels, R.J.M. and Van Os, C.H.
Quantification of Ca^{2+}-ATPases in porcine duodenum. Effects of $1,25(OH)_2D_3$ deficiency (1065) 177
Timmons, S., see Chen, C.S. (1075) 237
Timofeeva, N.G., see Mikhailenko, I.A. (1085) 299
Timonin, I.M., Dvoryantsev, S.N., Petrov, V.V., Ruuge, E.K. and Levitsky, D.O.
Interaction of alkaline metal ions with Ca^{2+}-binding sites of Ca^{2+}-ATPase of sarcoplasmic reticulum: ^{23}Na-NMR studies (1066) 43
Tino, A., Graziani, F. and Di Nocera, P.P.
A cDNA clone homologous to *Drosophila* F elements from an imaginal discs poly(A)$^+$ library (1087) 262
Tiruppathi, C., Ganapathy, V. and Leibach, F.H.
Transport of peptides in renal brush border membrane vesicles. Suitability of ^{125}I-labelled tyrosyl peptides as substrates (1069) 14
Tisdale, M.J., see Hepburn, P.A. (1088) 341
Titchen, D.A., Glenn, W.K., Nassif, N., Thompson, A.R. and Thompson, E.O.P.
A minor globin gene of the bivalve mollusc *Anadara trapezia* (1089) 61
Titomirov, A.V., Sukharev, S. and Kistanova, E.
In vivo electroporation and stable transformation of skin cells of newborn mice by plasmid DNA (1088) 131
Titus, L., see Rubin, J.E. (1091) 87
Tiveron, M.-C., Houde, M., Vola, C., Hipeau-Jacquotte, R., Berreur, P. and Brégégère, F.
Inter-species complementation of a *rosy* deficiency in *Drosophila melanogaster* (1088) 390
Tkachuk, V.A., see Bochkov, V.N. (1097) 123
Tkachuk, V.A., see Nupenko, E.V. (1091) 213
Tkalcevic, G.T., see Oka, K. (1089) 13
Tobe, T., see Nakano, Y. (1074) 326
Tochikura, T., see Tamaki, H. (1089) 276
Todokoro, K., see Yanagisawa, H. (1088) 380
Toelge, M., Ziegler, K., Maldener, I. and Lockau, W.
Directed mutagenesis of the gene *psaB* of Photosystem I of the cyanobacterium *Anabaena variabilis* ATCC 29413 (1060) 233
Tokuda, H., see Nishiyama, K.-i. (1065) 89
Tokumitsu, Y., see Uehara, T. (1088) 41
Tokunaga, F., see Yae, Y. (1078) 369
Tokunaga, M., Kawamura, A., Omori, A. and Hishinuma, F.
Purification and determination of the NH_2-terminal amino acid sequence of mouse α-amylase secreted from *Saccharomyces cerevisiae*: correct processing of the secretion signal from pGKL killer 28 kDa precursor protein (1080) 135
Tokutake, N., Miyoshi, H. and Fujita, T.
Electron transport inhibition of the cytochrome bc_1 complex of rat-liver mitochondria by phenolic uncouplers (1057) 377
Tolosa de Talamoni, N., Mykkanen, H., Cai, Q. and Wasserman, R.H.
Hormonal effects on the sulfhydryl groups associated with intestinal brush border membrane proteins (1094) 224
Toman, D., see Metsäranta, M. (1089) 241
Tomaro, M.L., see Frydman, J. (1076) 321
Tominaga, S.-i., Jenkins, N.A., Gilbert, D.J., Copeland, N.G. and Tetsuka, T.
Molecular cloning of the murine ST2 gene. Characterization and chromosomal mapping (1090) 1
Tomino, S., see Mori, S. (1090) 129
Tomino, S., see Sakurai, H. (1087) 18
Tomita, J., see Takikawa, H. (1091) 173
Tomita, M., see Nakano, Y. (1074) 326
Tomkin, G.H., see Owens, D. (1082) 303
Tomlinson, S., see Lynch, A.M. (1091) 141
Tomoda, T., Kurashige, T., Yamamoto, H., Fujimoto, S. and Taniguchi, T.
Fluctuation of gene expression for poly(ADP-ribose) synthetase during hemin-induced erythroid differentiation of human leukemia K562 cells and its reversion process (1088) 359
Tomsig, J.L. and Suszkiw, J.B.
Permeation of Pb^{2+} through calcium channels: fura-2 measurements of voltage- and dihydropyridine-sensitive Pb^{2+} entry in isolated bovine chromaffin cells (1069) 197
Tonazzi, A., see Indiveri, C. (1065) 231
Tonazzi, A., see Indiveri, C. (1069) 110
Tong, R.C.W., Glavas, N.A. and Bragg, P.D.
Topological analysis of the pyridine nucleotide transhydrogenase of *Escherichia coli* using proteolytic enzymes (1080) 19
Tonks, N., see Sanghera, J.S. (1095) 153
Toon, M.R. and Solomon, A.K.
Transport parameters in the human red cell membrane: solute-membrane interactions of amides and ureas (1063) 179
Top, M.A., see Gorree, G.C.M. (1086) 209
Toporowicz, A., see Vlock, D.R. (1080) 1
Toral-Barza, L., see Huang, H.-M. (1091) 409
Torchilin, V.P., see Klibanov, A.L. (1062) 142
Tornaletti, S., see Fronza, G. (1087) 330
Török, Z., see Horváth, I. (1085) 126
Torpier, G., see Bard, J.M. (1082) 170
Torti, M., Sinigaglia, F., Ramaschi, G. and Balduini, C.
Platelet glycoprotein IIb–IIIa is associated with 21-kDa GTP-binding protein (1070) 20
Tortorella, S., see Ragg, E. (1076) 37
Tortorella, S., see Ragg, E. (1076) 49
Tosi, P.-F., see Mouneimne, Y. (1066) 83
Tóth, G. and Szabó, G.
Nucleotide and DNA uptake by *Neurospora crassa*: involvement of an uptake stimulating protein (1063) 247
Tournois, H., see Moll, G.N. (1062) 206
Toutenhoofd, S., see Gaynor, P.M. (1090) 326
Tow, J.P., see Barron, J.T. (1093) 125
Towner, R.A., Reinke, L.A., Janzen, E.G. and Yamashiro, S.
Enhancement of carbon tetrachloride-induced liver injury by a single dose of ethanol: proton magnetic resonance imaging (MRI) studies in vivo (1096) 222
Toxopeus, E., see Bekkers, A.C.A.P.A. (1076) 374
Toyoshima, Y., see Nagatsuka, T. (1057) 223
Trammel, A.M., see Takakura, Y. (1070) 11
Tramposch, K., see Napolitano, A. (1073) 416
Tran, D., see Gascard, P. (1069) 27
Tran, K., see Meddings, J.B. (1070) 43
Tran, T.V., Allen, S. and Smith, J.C.
The behavior of a fast-responding barbituric acid potential-sensitive molecular probe in bovine heart submitochondrial particles (1059) 265
Trankina, M.L., see Harvey, S.A.K. (1073) 486
Trapman, J., see Zegers, N.D. (1073) 23
Trayer, I.P., see Bhandari, D.G. (1077) 385
Trebilcock, R., see Lynch, A.M. (1091) 141
Treide, A., see Mueller, K. (1076) 308
Trémolières, A., Roche, O., Dubertret, G., Guyon, D. and Garnier, J.
Restoration of thylakoid appression by Δ^3-*trans*-hexadecenoic

acid-containing phosphatidylglycerol in a mutant of *Chlamydomonas reinhardtii*. Relationships with the regulation of excitation energy distribution (1059) 286
Tréton, J., see Savu, L. (1097) 19
Treves, A.J., see Friedman, G. (1089) 83
Triggiani, M., Goldman, D.W. and Chilton, F.H.
Biological effects of 1-acyl-2-acetyl-*sn*-glycero-3-phosphocholine in the human neutrophil (1084) 41
Triggiani, M., see Nakamura, T. (1085) 191
Trijbels, J.M.F., see Reubsaet, F.A.G. (1083) 305
Trimble, K.R., see Senior, J.H. (1070) 173
Tripier, D., see Scheibe, R. (1076) 1
Tripodi, A., Loria, P., Dilengite, M.A. and Carulli, N.
Effect of fish oil and coconut oil diet on the LDL receptor activity of rat liver plasma membranes (1083) 298
Trocheris, V., see Viallard, V. (1085) 265
Troly, M., see Negre-Salvayre, A. (1096) 291
Tromp, M., Thach Van, T. and Wever, R.
Reactivation of vanadium bromoperoxidase; inhibition by metallofluoric compounds (1079) 53
Tronchère, H., see Tercé, F. (1084) 69
Tronchin, M., see Ricchelli, F. (1065) 42
Trowbridge, I.S., Ostergaard, H.L. and Johnson, P.
CD45: a leukocyte-specific member of the protein tyrosine phosphatase family (1095) 46
Trugo, L., see Guaragna, R.M. (1085) 29
Tsai, C.E., see Otto, D.A. (1082) 37
Tsai, I.-H., Lu, P.-J. and Chuang, J.-L.
The midgut chymotrypsins of shrimps (*Penaeus monodon, Penaeus japonicus and Penaeus penicillatus*) (1080) 59
Tsai, I.-H., see Liu, C.-S. (1077) 362
Tsang, A., see Bonfils, C. (1088) 145
Tsang, A., see Greenwood, M. (1088) 429
Tsao, F.H.C., Hull, W.M., Strickland, M.S., Whitsett, J.A., Foo, T.K.F., Zografi, G. and DeLuca Jr., P.M.
Lung calcium-dependent phospholipid-binding proteins: structure and function (1081) 141
Tschernko, E., see Lang, F. (1073) 600
Tschopp, J., see Sauer, H. (1063) 137
Tsiganos, C.P., see Samouilidou, E.C. (1070) 343
Tso, P., see Knox, R. (1083) 65
Tsonev, L.I., see Williams, W.P. (1062) 123
Tsong, T.Y., see Chernomordik, L.V. (1070) 193
Tsong, T.Y., see Popov, S.V. (1066) 151
Tsou, C.-L., see Wei, J. (1080) 29
Tsubaki, M., see Hori, H. (1077) 392
Tsuchiya, T., see Kubota, Y. (1079) 73
Tsuchiya, T., see Okabe, Y. (1059) 332
Tsuda, M., see Okabe, Y. (1059) 332
Tsuge, H., Koseki, K., Miyano, M., Shimazaki, K., Chuman, T., Matsumoto, T., Noma, M., Nitta, K. and Sugai, S.
A structural study of calcium-binding equine lysozyme by two-dimensional ^{1}H-NMR (1078) 77
Tsuji, A., Arai, T., Furcinitti, P.S., Langmore, J.P. and Kurachi, K.
The major component of a large, intracellular proteinase accumulated by inhibitors is a complex of α_2-macroglobulin and thrombin (1078) 85
Tsuji, A., see Sato, H. (1073) 442
Tsukagoshi, N., see Inagaki, T. (1077) 285
Tsukahara, T., Sugita, H. and Ishiura, S.
26S multicatalytic proteinase complexes decrease during the differentiation of murine erythroleukemia cells (1079) 273
Tsukahara, T., see Tanabe, H. (1094) 281
Tsukamoto, I. and Kojo, S.
The effects of fluorouracil on thymidylate synthase and thymidine kinase in regenerating rat liver after partial hepatectomy (1074) 52
Tsukamoto, I., Taniguchi, Y., Miyoshi, M. and Kojo, S.
Purification and characterization of thymidine kinase from regenerating rat liver (1079) 348
Tsukamoto, T., see Garibay, J.L.R. (1094) 193
Tsukii, Y., see Ito, R. (1096) 245
Tsukitani, Y., see Hatch, G.M. (1081) 25
Tsukitani, Y., see Livne, A.A. (1068) 161
Tsunoda, Y., Williams, J.A. and DelValle, J.
Secretagogue-induced Ca^{2+} oscillations in isolated canine gastric chief cells (1091) 251
Tsutsui, K., see Seki, S. (1079) 57
Tsutsui, M., see Iizuka, H. (1093) 95
Tsuzuki, A., see Kuroki, Y. (1086) 185
Tsuzuki, W. and Suzuki, T.
Reactive properties of the organic solvent-soluble lipase (1083) 201
Tuana, B.S., Sunahara, R.K., Murphy, B.J. and Pierce, G.N.
Two major antigens of heart sarcolemma are Ca^{2+}-binding glycoproteins that copurify with the dihydropyridine receptor (1091) 236
Tudela, J., see Rodríguez-López, J.N. (1076) 379
Tuijl, M.J.M., Van Bergen en Henegouwen, P.M.P., Van Wijk, R. and Verkleij, A.J.
The isolated neonatal rat-cardiomyocyte used in an in vitro model for 'ischemia'. II. Induction of the 68 kDa heat shock protein (1091) 278
Tuite, M.F., see Green, S.R. (1090) 277
Tul'skaya, E.M., Vylegzhanina, K.S., Streshinskaya, G.M., Shashkov, A.S. and Naumova, I.B.
1,3-Poly(glycerol phosphate) chains in the cell wall of *Streptomyces rutgersensis* var. *castelarense* VKM Ac-238 (1074) 237
Tunwell, R.E.A., O'Connor, C.D., Mata, A.M., East, J.M. and Lee, A.G.
Mapping epitopes on the (Ca^{2+}-Mg^{2+})-ATPase of sarcoplasmic reticulum using fusion proteins (1073) 585
Turcotte, J.G., Lin, W.H., Pivarnik, P.E., Sacco, A.M., Shirali, S.S., Bermel, M.M., Lu, Z. and Notter, R.H.
Chemical synthesis and surface activity of lung surfactant phospholipid analogs. II. Racemic *N*-substituted diether phosphonolipids (1084) 1
Turk, V., see Žerovnik, E. (1078) 313
Turnberg, L.A., see Riley, S.A. (1066) 175
Turner, A.J., see Greenhough, K.J. (1076) 364
Turner, G., see Waksman, G. (1073) 43
Turner, R.J., Matsoukas, J.M. and Moore, G.J.
Fluorescence properties of angiotensin II analogues in receptor-simulating environments: relationship between tyrosinate fluorescence lifetime and biological activity (1065) 21
Tyler, M.I., see Pearson, J.A. (1077) 147
Tzimagiorgis, G. and Moschonas, N.K.
Molecular cloning, structure and expression analysis of a full-length mouse brain glutamate dehydrogenase cDNA (1089) 250

U

Ubom, G.A., Rhee, S.G., Hunt, J.B. and Chock, P.B.
Distance changes at the regulatory and catalytic sites on *Escherichia coli* glutamine synthetase: a spin label study on the effect of substrate(s) binding (1077) 91
Uchida, K., see Asada, H. (1080) 34
Uchida, K., see Ito, R. (1096) 245

Udaka, S., see Inagaki, T. (1077) 285
Ueda, H., Iyo, H., Doi, M., Inoue, M. and Ishida, T.
Cooperative stacking and hydrogen bond pairing interactions of fragment peptide in cap binding protein with mRNA cap structure (1075) 181
Ueda, H., Shoku, Y., Hayashi, N., Mitsunaga, J.-i., In, Y., Doi, M., Inoue, M. and Ishida, T.
X-ray crystallographic conformational study of 5′-*O*-[*N*-(L-alanyl)-sulfamoyl]adenosine, a substrate analogue for alanyl-tRNA synthetase (1080) 126
Ueda, I., see Suezaki, Y. (1066) 225
Ueda, I., see Tamura, K. (1066) 219
Ueda, N., see Hada, T. (1083) 89
Ueda, N., see Natsui, K. (1085) 241
Uedaira, H., see Honda, S. (1068) 81
Uedelhoven, W.M., Rützel, A., Meese, C.O. and Weber, P.C.
Smoking alters thromboxane metabolism in man (1081) 197
Uehara, T., Chihara, T., Tokumitsu, Y. and Nomura, Y.
Possible involvement of pertussis toxin-sensitive GTP-binding protein(s) in c-*fos* expression during differentiation of 3T3-L1 fibroblasts to adipocytes (1088) 41
Ueno, K., see Nanbu, R. (1088) 71
Ueno, R. and Yuan, C.-S.
Purification and properties of neutral β-*N*-acetylglucosaminidase from carp blood (1074) 79
Ueno, S.-i., Kotani, K., Sano, A. and Kakimoto, Y.
Isolation and identification of α-(β-alanyl)hypusine from bovine brain (1073) 233
Ueno, T., see Ikejiri, K. (1089) 77
Ueno, Y., see Okada, H. (1078) 377
Ugrankar, M.M., see Prabhananda, B.S. (1070) 481
Uhing, R.J., Martenson, C.H., Rubenstein, D.S., Hollenbach, P.W. and Pizzo, S.V.
The exposure of murine macrophages to α_2-macroglobulin 'fast' forms results in the rapid secretion of eicosanoids (1093) 115
Uhl, J., Newton, R.C., Gross, J.L., Rommi, W. and Mochan, E.
Modulation of synovial fibroblast plasminogen activator and plasminogen activator inhibitor production by protein kinase C (1097) 283
Ui, M., see Takahashi, S. (1093) 207
Ui, M., see Watanabe, T. (1074) 398
Ukai, K., see Nomura, T. (1092) 94
Ulmann, L., Poisson, J.-P., Blond, J.P. and Bézard, J.
Incorporation into liver microsomal lipids of linoleic and stearic acids and of their respective products of $\Delta 6$ and $\Delta 9$ desaturation, γ-linolenic and oleic acids: effect of age and of blackcurrant seed oil (1086) 230
Ulmann, L., see Mimouni, V. (1086) 349
Ulrich, A.K., Li, L.-Y. and Parker, J.
Codon usage, transfer RNA availability and mistranslation in amino acid starved bacteria (1089) 362
Ulstrup, J., see Khoshtariya, D.E. (1076) 359
Umelas, T.M., see Banfield, D.K. (1089) 262
Umemura, J., see Matsuzaki, K. (1070) 419
Underwood, J., see Rothman, S. (1074) 85
Unger, M.E., Chen, T.T., Murphy, C.M., Vestling, M.M., Fenselau, C. and Roesijadi, G.
Primary structure of molluscan metallothioneins deduced from PCR-amplified cDNA and mass spectrometry of purified proteins (1074) 371
Urano, T., Takada, Y. and Takada, A.
Stimulation of the amidolytic activity of single chain tissue-type plasminogen activator by fibrinogen degradation products: possible fibrin binding sites on single chain tissue-type plasminogen activator molecule (1077) 245
Urashima, T., Saito, T., Ohmisya, K. and Shimazaki, K.
Structural determination of three neutral oligosaccharides in bovine (Holstein-Friesian) colostrum, including the novel trisaccharide; GalNAcα1-3Galβ1-4Glc (1073) 225
Urayama, O., see Ishizuka, N. (1069) 259
Uribe, A., see Moreno-Sánchez, R. (1060) 284
Urrutigoïty, M., Baboulène, M., Lattes, A., Souppe, J. and Seris, J.-L.
Effect of linking allyl and aromatic chains to histidine 170 in horseradish peroxidase (1079) 209
Ushiro, H., see Tanaka, M. (1088) 385
Usobiaga, P., see Gasset, M. (1068) 9
Utegalieva, R.S., see Vashchenko, V.I. (1079) 8
Uteshev, T.A., see Ozoline, O.N. (1076) 387
Uyemura, K., see Kobayashi, M. (1090) 238

V

Väänänen, K., see Mattsson, J.P. (1065) 261
Vacca, A., see Gulino, A. (1087) 7
Vaes, G., see Lefebvre, V. (1094) 8
Valle, V.G.R., see Hermes-Lima, M. (1056) 57
Vallee, B.L., see Wetterholm, A. (1080) 96
Vallette, G., see Garreau, B. (1094) 339
Valls, V., see Sáez, G.T. (1092) 325
Valpuesta, J.M., see Castresana, J. (1065) 29
Vanaman, T.C., see Yacko, M.A. (1064) 7
Van Amerongen, H., see Lin, S. (1060) 13
Van Amerongen, H., see Newell, W.R. (1057) 232
Van Beeumen, J.
Primary structure diversity of prokaryotic diheme cytochromes *c* (1058) 56
Van Bergen en Henegouwen, P.M.P., see Tuijl, M.J.M. (1091) 278
Van Bruggen, E.F.J., see Wullink, W. (1060) 97
Vance, D.E., see Hatch, G.M. (1081) 25
Vance, D.E., see Jamil, H. (1086) 335
Vance, D.E., see Tijburg, L.B.M. (1085) 167
Vance, D.E., see Tijburg, L.B.M. (1085) 178
Vance, D.E., see Tijburg, L.B.M. (1085) 184
Van Dam-Mieras, M.C.E., see Vossen, R.C.R.M. (1083) 243
Van Deenen, L.L.M., see Moll, G.N. (1062) 206
Van de Meent, E.J., see Kobayashi, M. (1057) 89
Van den Berg, M., see Heikoop, J.C. (1097) 62
Van den Bergh, C.J., see Bekkers, A.C.A.P.A. (1089) 345
Van den Berghe, H., see Devriendt, K. (1088) 95
Van den Berghe, H., see Jorissen, M. (1096) 52
Van den Bogert, C., Pennings, A., Dekker, H.L., Luciaková, K., Boezeman, J.B.M. and Sinjorgo, K.M.C.
Quantification of mitochondrial proteins in cultured cells by immuno-flow cytometry (1097) 87
Van Den Bosch, H., see Wiemer, E.A.C. (1097) 232
Van den Bosch, H., see Hardeman, D. (1081) 285
Van den Bosch, H., see Van Wijk, G.M.T. (1084) 307
Van den Bosch, H., see Van Wijk, G.M.T. (1086) 99
Van Den Bosch, L., De Smedt, H. and Borghgraef, R.
Influence of PMA and a low extracellular Ca^{2+} concentration on the development of the Na^+-dependent hexose carrier in LLC-PK_1 cells (1092) 244
Van den Eertwegh, V., see Moll, G.N. (1062) 206
Van den Hoff, M.J.B., Geerts, W.J.C., Das, A.T., Moorman, A.F.M. and Lamers, W.H.
cDNA sequence of the long mRNA for human glutamine synthase (1090) 249

Van der Donk, E.M.M., Dubois, G.R., Verhagen, J., Veldink, G.A. and Vliegenthart, J.F.G.
Improved purification of 12-lipoxygenase from rat basophilic leukemia cells and conditions for optimal enzyme activity (1074) 443

Van der Donk, E.M.M., Verhagen, J., Veldink, G.A. and Vliegenthart, J.F.G.
12-Lipoxygenase from rat basophilic leukemia cells: separation from 5-lipoxygenase and temperature-dependent inactivation by hydroperoxy fatty acid (1081) 135

Van der Drift, C., see Te Brömmelstroet, B.W. (1073) 77

Van der Drift, C., see Te Brömmelstroet, B.W.J. (1079) 293

Van der Grond, J., Dijkstra, G., Roelofsen, B. and Mali, W.P.T.M.
^{31}P-NMR determination of phosphomonoesters in relation to phospholipid biosynthesis in testis of the rat at different ages (1074) 189

Van der Hijden, H.T.W.M., Koster, H.P.G., Swarts, H.G.P. and De Pont, J.J.H.H.M.
Phosphorylation of H^+/K^+-ATPase by inorganic phosphate. The role of K^+ and SCH 28080 (1061) 141

Vanderhoek, J.Y., see Nichols, R.C. (1085) 77

Van der Horst, D.J., see Surholt, B. (1086) 15

Van der Kraan, I., see De Jong, L. (1079) 103

Van der Kwast, T.H., see Zegers, N.D. (1073) 23

Van der Lee, F.M., see Holthuizen, P. (1087) 341

Van der Lugt, N.M.T., see Coenjaerts, F.E.J. (1090) 61

Vandermeers, A., see Gourlet, P. (1066) 245

Vandermeers-Piret, M.-C., see Gourlet, P. (1066) 245

Van der Oord, C.J.R., see Van Mourik, F. (1059) 111

Van der Pal, R.H.M., Klein, W., Van Golde, L.M.G. and Lopes-Cardozo, M.
Developmental profiles of arylsulfatases A and B in rat cerebral cortex and spinal cord (1081) 315

Van der Pas, J.C., Röhlen, D.A., Weidner, U. and Weiss, H.
Primary structure of the nuclear-encoded 29.9 kDa subunit of NADH:ubiquinone reductase from *Neurospora crassa* mitochondria (1089) 389

Van der Pas, J.C., see Nehls, U. (1088) 325

Van der Pas, J., see Preis, D. (1090) 133

Van der Vliet, P.C., see Coenjaerts, F.E.J. (1090) 61

Van Der Vusse, G.J., see Vork, M.M. (1075) 199

Van de Vijver, M.J. and Nusse, R.
The molecular biology of breast cancer (1072) 33

Van Dorsten, F., see De Wolf, F.A. (1096) 67

Van Driel, W., see Coenjaerts, F.E.J. (1090) 61

Van Golde, L.M.G., see Van der Pal, R.H.M. (1081) 315

Van Gorkom, H.J., see Vos, M.H. (1056) 27

Van Gorkom, L.C.M., see Fraser, D.M. (1069) 53

Van Grondelle, R., see Lankelma, J. (1093) 147

Van Grondelle, R., see Newell, W.R. (1057) 232

Van Grondelle, R., see Van Mourik, F. (1059) 111

Van Heyningen, S., see Lobban, M.D. (1078) 155

Vanier, M.T., Rodriguez-Lafrasse, C., Rousson, R., Gazzah, N., Juge, M.-C., Pentchev, P.G., Revol, A. and Louisot, P.
Type C Niemann-Pick disease: spectrum of phenotypic variation in disruption of intracellular LDL-derived cholesterol processing (1096) 328

Vanier, M.T., see Argoff, C.E. (1096) 319

Van Laar, J.H., see Zegers, N.D. (1073) 23

Van Leeuwen, M.B., see Van Weely, S. (1096) 301

Van Leeuwen, P.J., see Vos, M.H. (1056) 27

Van Mansfeld, A.D.M., Mosselman, S., Höppener, J.W.M., Zandberg, J., Van Teeffelen, H.A.A.M., Baas, P.D., Lips, C.J.M. and Jansz, H.S.
Islet amyloid polypeptide: structure and upstream sequences of the IAPP gene in rat and man (1087) 235

Van Mier, P., see Jacobs, A.E.M. (1096) 14

Van Mourik, F., see Lankelma, J. (1093) 147

Van Mourik, F., Van der Oord, C.J.R., Visscher, K.J., Parkes-Loach, P.S., Loach, P.A., Visschers, R.W. and Van Grondelle, R.
Exciton interactions in the light-harvesting antenna of photosynthetic bacteria studied with triplet-singlet spectroscopy and singlet-triplet annihilation on the B820 subit form of *Rhodospirillum rubrum* (1059) 111

Van Nuland, N.A.J., see Sanders, J.C. (1066) 102

Vanoni, M.A., see Frascotti, G. (1089) 206

Van Os, C.H., see Timmermans, J.A.H. (1065) 177

Van Rijswijk, M.H., see Yap, S.H. (1091) 405

Van Teeffelen, H.A.A.M., see Van Mansfeld, A.D.M. (1087) 235

Van Tol, A., see Staels, B. (1085) 131

Van Uem, T.J.F., see Swarts, H.G.P. (1070) 283

Van Veldhoven, P.P., Brees, C. and Mannaerts, G.P.
D-Aspartate oxidase, a peroxisomal enzyme in liver of rat and man (1073) 203

Van Vliet, P.H., see Ooms, J.J.J. (1056) 293

Van Weely, S., Van Leeuwen, M.B., Jansen, I.D.C., De Bruijn, M.A.C., Brouwer-Kelder, E.M., Schram, A.W., Sa Miranda, M.C., Barranger, J.A., Petersen, E.M., Goldblatt, J., Stotz, H., Schwarzmann, G., Sandhoff, K., Svennerholm, L., Erikson, A., Tager, J.M. and Aerts, J.M.F.G.
Clinical phenotype of Gaucher disease in relation to properties of mutant glucocerebrosidase in cultured fibroblasts (1096) 301

Van Wijk, G.M.T., Hostetler, K.Y., Schlame, M. and Van den Bosch, H.
Cytidine diphosphate diglyceride analogs of antiretroviral dideoxynucleosides: evidence for release of dideoxynucleoside-monophosphates by phospholipid biosynthetic enzymes in rat liver subcellular fractions (1086) 99

Van Wijk, G.M.T., Hostetler, K.Y. and Van den Bosch, H.
Lipid conjugates of antiretroviral agents: release of antiretroviral nucleoside monophosphates by a nucleoside diphosphate diglyceride hydrolase activity from rat liver mitochondria (1084) 307

Van Wijk, R., see Tuijl, M.J.M. (1091) 278

Van Winkle, L.J., Mann, D.F., Weimer, B.D. and Campione, A.L.
Na^+-dependent transport of anionic amino acids by preimplantation mouse blastocysts (1068) 231

Varfolomeev, S.D., see Sud'ina, G.F. (1091) 257

Varga, S., Taylor, K.A. and Martonosi, A.
Effects of solutes on the formation of crystalline sheets of the Ca^{2+}-ATPase in detergent-solubilized sarcoplasmic reticulum (1070) 374

Varga, S., see Buchet, R. (1068) 201

Varga, S., see Molnar, E. (1068) 17

Varga, S., see Molnar, E. (1068) 27

Varley, P.G., Dryden, D.T.F. and Pain, R.H.
Resolution of the fluorescence of the buried tryptophan in yeast 3-phosphoglycerate kinase using succinimide (1077) 19

Varón, R., see García-Moreno, M. (1080) 143

Varón, R., see Rodríguez-López, J.N. (1076) 379

Varro, A., see Donella-Deana, A. (1095) 75

Vashchenko, V.I., Utegalieva, R.S. and Esyrev, O.V.
Vanadate inhibition of ATP and *p*-nitrophenyl phosphate hydrolysis in the fragmented sarcoplasmic reticulum (1079) 8

Vass, I., see Chapman, D.J. (1057) 391

Vassart, G., see Donda, A. (1090) 235

Vasseur, C., see Yannoukakos, D. (1061) 253

Vasseur, C., see Yannoukakos, D. (1066) 70

Vater, J., see Shallan, M.A.-A.M. (1057) 64

Veeranjaneyulu, K., see Gruszecki, W.I. (1056) 173

Veerkamp, J.H., Peeters, R.A. and Maatman, R.G.H.J.
Structural and functional features of different types of cytoplasmic fatty acid-binding proteins (1081) 1

Veerkamp, J.H., see Jacobs, A.E.M. (1096) 14

Veerkamp, J.H., see Reubsaet, F.A.G. (1083) 305

Veldhuizen, R.A.W., Thompson, W. and Possmayer, F.
Rat liver and lung mitochondria do not incorporate radioactivity from glycerol-3-phosphate or CDP-choline into glycero-3-phosphocholine (1083) 211
Veldink, G.A., see Van der Donk, E.M.M. (1074) 443
Veldink, G.A., see Van der Donk, E.M.M. (1081) 135
Vemuri, R., see Bersohn, M.M. (1062) 19
Venner, T.J. and Gupta, R.S.
Nucleotide sequence of mouse HSP60 (chaperonin, GroEL homolog) cDNA (1087) 336
Verbakel, J.M.A., see Bekkers, A.C.A.P.A. (1089) 345
Verbist, J., Gadella Jr., T.W.J., Raeymaekers, L., Wuytack, F., Wirtz, K.W.A. and Casteels, R.
Phosphoinositide–protein interactions of the plasma-membrane Ca^{2+}-transport ATPase as revealed by fluorescence energy transfer (1063) 1
Vercesi, A.E., see Antonio, R.V. (1056) 250
Vercesi, A.E., see Hermes-Lima, M. (1056) 57
Verdonck, F., see Bielen, F.V. (1065) 269
Vereecke, J., see Jorissen, M. (1096) 52
Vergani, L., see Martinuzzi, A. (1095) 217
Vergara, J., see Asotra, K. (1081) 229
Vergely, I., see Vilain, A.-C. (1076) 401
Verger, R., see Gargouri, Y. (1085) 322
Vergères, G., see Kunz, B.C. (1063) 226
Vergères, G., Winterhalter, K.H. and Richter, C.
Localization of the N-terminal methionine of rat liver cytochrome *P*-450 in the lumen of the endoplasmic reticulum (1063) 235
Vergnes, H.A., Grozdea, J. and Brisson-Lougarre, A.
Effects of uric acid in aqueous phase on neutrophil alkaline phosphatase (1076) 152
Verhagen, J., see Van der Donk, E.M.M. (1074) 443
Verhagen, J., see Van der Donk, E.M.M. (1081) 135
Verheij, H.M., see Bekkers, A.C.A.P.A. (1076) 374
Verheij, H.M., see Bekkers, A.C.A.P.A. (1089) 345
Verhoeven, A.J.M. and Jansen, H.
Secretion-coupled increase in the catalytic activity of rat hepatic lipase (1086) 49
Verkleij, A.J., see Burger, K.N.J. (1065) 121
Verkleij, A.J., see Burger, K.N.J. (1068) 249
Verkleij, A.J., see Frederik, P.M. (1062) 133
Verkleij, A.J., see Hülsmann, W.C. (1097) 263
Verkleij, A.J., see Musters, R.J.P. (1091) 270
Verkleij, A.J., see Tuijl, M.J.M. (1091) 278
Verma, J.N., Wassef, N.M., Wirtz, R.A., Atkinson, C.T., Aikawa, M., Loomis, L.D. and Alving, C.R.
Phagocytosis of liposomes by macrophages: intracellular fate of liposomal malaria antigen (1066) 229
Verma, S.P. and Singhal, A.
Low levels of the pesticide, δ-hexachlorocyclohexane, lyses human erythrocytes and alters the organization of membrane lipids and proteins as revealed by Raman spectroscopy (1070) 265
Vermaas, W.F.J., see Cao, J. (1059) 171
Vermeer, C., see Soute, B.A.M. (1073) 434
Verméglio, A., see Sebban, P. (1057) 109
Versluis, W., see Ooms, J.J.J. (1056) 293
Verstappen, R., Ranostaj, S. and Rausch, T.
The hexose transporters at the plasma membrane and the tonoplast of transformed plant cells: kinetic characterization of two distinct carriers (1073) 366
Vértessy, B.G., Orosz, F. and Ovádi, J.
Modulation of the interaction between aldolase and glycerolphosphate dehydrogenase by fructose phosphates (1078) 236
Vesterman, B., Bobrowski, K., Betins, J., Nikiforovich, G.V. and Wierzchowski, K.L.
Conformational interpretation of intramolecular electron transfer in Met^5-enkephalins between Tyr and Met(S:.Br) radical (1079) 39
Vestling, M.M., see Roesijadi, G. (1074) 230
Vestling, M.M., see Unger, M.E. (1074) 371
Vetter, I.R., Hanssum, H. and Bäumert, H.G.
Studies on the anion binding selectivity of sarcoplasmic reticulum membranes by ^{35}Cl-NMR (1067) 9
Viallard, V., Lacombe, C., Nebot, C., Castan, I. and Trocheris, V.
Acyl-CoA:cholesterol acyltransferase in HT 29 cell subpopulations. Defect of activity in the undifferentiated cells (1085) 265
Vianello, A., Zancani, M., Braidot, E., Petrussa, E. and Macrì, F.
Proton pumping inorganic pyrophosphatase of pea stem submitochondrial particles (1060) 299
Viani, P., Cervato, G. and Cestaro, B.
Pyrene derivatives as markers of transbilayer effect of lipid peroxidation on neuronal membranes (1064) 24
Vicario, A., see Morello, L. (1092) 397
Vidal, C.J., see Cánovas-Muñoz, M.D. (1076) 259
Vieu, C., see Collet, X. (1081) 211
Vígh, L., see Horváth, I. (1085) 126
Vijayagopal, P., Srinivasan, S.R., Radhakrishnamurthy, B. and Berenson, G.S.
Studies on the mechanism of uptake of low density lipoprotein-proteoglycan complex in macrophages (1092) 291
Vijayagopal, P., see Srinivasan, S.R. (1081) 188
Vijayalakshmi, M.A., see Goubran Botros, H. (1074) 69
Vilain, A.-C., Okochi, V., Vergely, I., Reboud-Ravaux, M., Mazaleyrat, J.-P. and Wakselman, M.
Acyloxybenzyl halides, inhibitors of elastases (1076) 401
Vilbergsson, G., see Percy, P. (1084) 173
Villalba, J.M., see Alcain, F.J. (1073) 380
Villalba, M., see Monsalve, R.I. (1078) 265
Villar-Palasi, C.
Substrate specific activation by glucose 6-phosphate of the dephosphorylation of muscle glycogen synthase (1095) 261
Villaz, M., see Carrier, L. (1064) 175
Vilter, H., see Jordan, P. (1073) 98
Viña, J., see Sastre, J. (1065) 213
Vincenzini, M.T., Favilli, F., Stio, M. and Iantomasi, T.
Intestinal glutathione transport system: a possible detoxication role (1073) 571
Viola, R.E., see Karsten, W.E. (1077) 209
Virgallita, G., see Bertocci, B. (1080) 103
Visscher, K.J., see Van Mourik, F. (1059) 111
Visschers, R.W., see Van Mourik, F. (1059) 111
Vittori, C., see Gérardi-Laffin, C. (1063) 21
Vlak, J.M., see Jansen, J.J.M. (1089) 68
Vliegenthart, J.F.G., see Van der Donk, E.M.M. (1074) 443
Vliegenthart, J.F.G., see Van der Donk, E.M.M. (1081) 135
Vlock, D.R., Aul, D.J., Toporowicz, A., McCoy, J.P. and Brown, W.E.
Purification and partial characterization of a shed 66 kDa melanoma-associated antigen identified by autologous antibody (1080) 1
Voelker, D.R., see McCormack, F.X. (1087) 190
Vogel, T., see Arnon, R. (1085) 336
Vogels, G.D., see Te Brömmelstroet, B.W. (1073) 77
Vogels, G.D., see Te Brömmelstroet, B.W.J. (1079) 293
Vogt, E., see Martinoia, E. (1062) 271
Vogt, T.C.B., Killian, J.A., Demel, R.A. and De Kruijff, B.
Synthesis of acylated gramicidins and the influence of acylation on the interfacial properties and conformational behavior of gramicidin A (1069) 157
Voino-Yasenetskaya, T.A., see Bochkov, V.N. (1097) 123
Vola, C., see Tiveron, M.-C. (1088) 390
Volckaert, G., see Hoogenboom, H.R. (1096) 345

Von Hodenberg, E., Heinen, S., Howell, K.E., Luley, C., Kübler, W. and Bond, H.M.
Cholesterol efflux from macrophages mediated by high-density lipoprotein subfractions, which differ principally in apolipoprotein A-I and apolipoprotein A-II ratios (1086) 173
Von Holt, C., see Friede, M.H. (1069) 273
Von Itzstein, M., see Chong, A.K.J. (1077) 65
Von Jagow, G., see Lemma, E. (1059) 281
Vonk, R.J., see Wolters, H. (1069) 61
Von Recklinghausen, I.R., Scott, D.M. and Jans, A.W.H.
An NMR spectroscopic characterization of a new epithelial cell line, TALH-SVE, with properties of the renal medullary thick ascending limb of Henle's loop (1091) 179
Vonwirth, H., Frank, P., Kedinger, C. and Büsen, W.
Class II ribonuclease H comigrates with, but is distinct from, the third largest subunit of calf thymus RNA polymerase I (1087) 31
Voorhorst, M.M., see Zegers, N.D. (1073) 23
Voorma, H.O., see Scheper, G.C. (1089) 220
Vork, M.M., Glatz, J.F.C., Surtel, D.A.M., Knubben, H.J.M. and Van Der Vusse, G.J.
A sandwich enzyme linked immuno-sorbent assay for the determination of rat heart fatty acid-binding protein using the streptavidin-biotin system. Application to tissue and effluent samples from normoxic rat heart perfusion (1075) 199
Voronov, S.E., see Krasilnikov, O.V. (1067) 166
Voß, H., see Wiemann, S. (1089) 254
Vos, M.H., Van Gorkom, H.J. and Van Leeuwen, P.J.
An electroluminescence study of stabilization reactions in the oxygen-evolving complex of Photosystem II (1056) 27
Vossen, R.C.R.M., Van Dam-Mieras, M.C.E., Lemmens, P.J.M.R., Hornstra, G. and Zwaal, R.F.A.
Membrane fatty acid composition and endothelial cell functional properties (1083) 243
Vranckx, R., see Savu, L. (1097) 19
Vredenberg, W.J., see Ooms, J.J.J. (1056) 293
Vuorio, E., see Metsäranta, M. (1089) 241
Vuorio, E., see Oikarinen, A. (1089) 40
Vuorio, T., see Oikarinen, A. (1089) 40
Vylegzhanina, K.S., see Tul'skaya, E.M. (1074) 237
Vysotskii, M.V. and Svetashev, V.I.
Identification, isolation and characterization of tetracosapolyenoic acids in lipids of marine coelenterates (1083) 161

W

Wachtel, E., see Maroudas, A. (1073) 285
Wachtel, E.J., Borochov, N. and Bach, D.
The effect of protons or calcium ions on the phase behavior of phosphatidylserine-cholesterol mixtures (1066) 63
Wada, F., see Nishi, N. (1095) 268
Wada, S., Yasutomo, Y., Kosano, H., Kugai, N. and Nagata, N.
The effect of $PGF_{2\alpha}$ on parathyroid hormone-stimulated cyclic AMP production in mouse osteoblastic cell, $MC3T3E_1$ (1074) 182
Waddell, I.D., see Barash, V. (1073) 161
Waddell, I.D., see Burchell, A. (1092) 129
Waeg, G., see Sattler, W. (1081) 65
Wagner, B., see Fehmann, H.-C. (1091) 356
Wagner, H., see Götz, F. (1087) 323
Wagner, P.D., see Wu, Y.N. (1092) 384
Wähälä, K., see Garreau, B. (1094) 339
Waite, M., see Thuren, T. (1083) 217
Wajcman, H., Kister, J., Marden, M., Bohn, B., Blouquit, Y., Descamps, J., Goudemand, M., Poyart, C. and Galacteros, F.
Hemoglobin Calais [β 76 (E20) Ala → Pro]: a hemoglobin variant with decreased intrinsic oxygen affinity (1096) 60
Wajcman, H., see Yannoukakos, D. (1061) 253
Wajcman, H., see Yannoukakos, D. (1066) 70
Wake, S.A., see Mercer, J.F.B. (1097) 205
Wakelam, M.J.O., see Cook, S.J. (1092) 265
Wakelin, L.P.G., see Wickham, G. (1073) 528
Wakselman, M., see Vilain, A.-C. (1076) 401
Waksman, G.
Purification and characterization of two endo-β-1,4-D-glucanases from *Sclerotinia sclerotiorum* (1073) 49
Waksman, G., Keon, J.P.R. and Turner, G.
Purification and characterization of two endopolygalacturonases from *Sclerotinia sclerotiorum* (1073) 43
Walaas, O., Horn, R.S. and Walaas, S.I.
Insulin and phorbol ester stimulate phosphorylation of a 15000 dalton membrane protein in rat diaphragm in a similar manner (1094) 92
Walaas, S.I., see Walaas, O. (1094) 92
Waldegger, S., see Lang, F. (1073) 600
Waldman, S.A., see Gazzano, H. (1077) 99
Wali, R.K., Baum, C.L., Bolt, M.J.G., Dudeja, P.K., Sitrin, M.D. and Brasitus, T.A.
Down-regulation of protein kinase C activity in 1,2-dimethylhydrazine-induced rat colonic tumors (1092) 119
Walia, B.N.S., see Khurana, S. (1097) 171
Walker, I.D., see Ehnholm, C. (1086) 255
Walker, J., see Wojenski, C.M. (1081) 33
Wallace, B.A., see Swords, N.A. (1070) 313
Wallace, J.L., see Meddings, J.B. (1070) 43
Wallimann, T., see Kottke, M. (1061) 215
Wallmark, B., see Mattsson, J.P. (1065) 261
Walseth, T.F., Aarhus, R., Zeleznikar, Jr., R.J. and Lee, H.C.
Determination of endogenous levels of cyclic ADP-ribose in rat tissues (1094) 113
Walters, D.E., see Wootton, J.C. (1057) 157
Walters, R.J., see O'Brien, J.A. (1070) 501
Walz, D., see Mindroiu, T. (1076) 9
Walz, D.A., see Talpas, C.J. (1078) 208
Wanders, R.J.A., see Heikoop, J.C. (1097) 62
Wanders, R.J.A., see Lageweg, W. (1085) 381
Wanders, R.J.A., see Wiemer, E.A.C. (1097) 232
Wanders, R.J.A., see Wolvetang, E.J. (1095) 122
Wang, F., see Zhu, J.-d. (1089) 158
Wang, H.H., see Blanton, M.P. (1067) 1
Wang, J. and Pullman, A.
Do helices in membranes prefer to form bundles or stay dispersed in the lipid phase? (1070) 493
Wang, K. and Wondergem, R.
Effects of hyperosmotic medium on hepatocyte volume, transmembrane potential and intracellular K^+ activity (1069) 187
Wang, L., see Moehario, L.H. (1097) 128
Wang, L.C.H., see Milner, R.E. (1063) 120
Wang, P.D., see Coroneos, E. (1073) 593
Wang, T. and Powell, W.S.
Increased levels of monohydroxy metabolites of arachidonic acid and linoleic acid in LDL and aorta from atherosclerotic rabbits (1084) 129
Wang, W.-J., see Huang, T.-F. (1074) 136
Wang, W.-J., see Huang, T.-F. (1074) 144
Wang, Y., see Askari, A. (1069) 127
Wang, Z.-q., see Lin, H.-n. (1067) 17
Wang, Z.-Y. and Portis, Jr., A.R.
A fluorometric study with 1-anilinonaphthalene-8-sulfonic acid

(ANS) of the interactions of ATP and ADP with rubisco activase (1079) 263
Wani, A.A. and Arezina, J.
Immunoanalysis of ultraviolet radiation induced DNA damage and repair within specific gene segments of plasmid DNA (1090) 195
Wani, A.A. and Yamasaki, E.F.
Quantitative analysis of carbodiimide modified DNA and immunoprobing by adduct specific antibodies (1088) 259
Ward, R.V., Atkinson, S.J., Slocombe, P.M., Docherty, A.J.P., Reynolds, J.J. and Murphy, G.
Tissue inhibitor of metalloproteinases-2 inhibits the activation of 72 kDa progelatinase by fibroblast membranes (1079) 242
Warhurst, G., see Riley, S.A. (1066) 175
Waring, A.J., see Amirkhanian, J.D. (1096) 355
Warne, T.R., see Robinson, M. (1085) 63
Warr, J.R., see Stow, M.W. (1092) 7
Warren, J.C., see Murdock, G.L. (1076) 197
Warren, P.V., see Li, N. (1059) 215
Warren, P.V., see Mehari, T. (1056) 139
Warren, R.J., Ebert, D.L., Barter, P.J. and Mitchell, A.
The regulation of hepatic lipase and cholesteryl ester transfer protein activity in the cholesterol fed rabbit (1086) 354
Washburn, A.L., see Murono, E.P. (1091) 55
Waśniowska, A., see Kołoczek, H. (1073) 619
Wassdal, I., see Myrset, A.H. (1070) 229
Wassef, N.M., see Verma, J.N. (1066) 229
Wasserman, M., see Olaya, P. (1096) 217
Wasserman, R.H., see Tolosa de Talamoni, N. (1094) 224
Wasson, D.B., see Carson, D.A. (1091) 22
Wasylewski, Z., see Kołoczek, H. (1073) 619
Watahiki, M., see Yamakawa, M. (1087) 247
Watanabe, F., Nakano, Y., Tamura, Y. and Yamanaka, H.
Vitamin B_{12} metabolism in a photosynthesizing green alga, *Chlamydomonas reinhardtii* (1075) 36
Watanabe, K., see Hirao, I. (1087) 199
Watanabe, K., see Kumazawa, Y. (1090) 167
Watanabe, K., see Natsui, K. (1085) 241
Watanabe, S., Tani, T., Watanabe, S. and Senō, M.
Transport of steroid hormones facilitated by serum proteins (1073) 275
Watanabe, S., see Seki, S. (1079) 57
Watanabe, S., see Watanabe, S. (1073) 275
Watanabe, T., Shimizu, T., Nakao, A., Taniguchi, S., Arata, Y., Teramoto, T., Seyama, Y., Ui, M. and Kurokawa, K.
Characterization of partially purified prostaglandin E_2 receptor from the canine renal medulla: evidence for physical association of the receptor protein with the inhibitory guanine nucleotide-binding protein (1074) 398
Watanabe, T., see Kobayashi, M. (1057) 89
Watanabe, T., see Seno, M. (1089) 244
Watanabe, Y., see Kimura, Y. (1069) 218
Watkins, C.L., see Lacey, J.C. (1076) 395
Watkins, D.W., see Tacnet, F. (1063) 51
Watt, P.W., see Hundal, H.S. (1092) 376
Watts, A., see Fraser, D.M. (1069) 53
Watts, A., see Sanders, J.C. (1066) 102
Webb, M.S. and Green, B.R.
Biochemical and biophysical properties of thylakoid acyl lipids (1060) 133
Weber, K., see Newman, P. (1080) 227
Weber, P.C., Wendoloski, J.J. and Salemme, F.R.
Cooperative ligand reorientations in cytochrome c_3: a molecular dynamics simulation (1058) 83
Weber, P.C., see Aepfelbacher, M. (1074) 125
Weber, P.C., see Uedelhoven, W.M. (1081) 197
Weber, W.-M., Püschel, B., Steffgen, J., Koepsell, H. and Schwarz, W.
Comparison of a Na^+/D-glucose cotransporter from rat intestine expressed in oocytes of *Xenopus laevis* with the endogenous cotransporter (1063) 73
Weckesser, J., see Welte, W. (1080) 271
Wedler, F.C. and McLean, M.A.
Intermediates in guanidine-HCl unfolding of glutamine synthetase from the extreme thermophile, *Bacillus caldolyticus* (1076) 161
Wehrli, E., see Yin, C.-C. (1070) 33
Wei, J., Lin, Y.-Z., Zhou, J.-M. and Tsou, C.-L.
FTIR studies of secondary structures of bovine insulin and its derivatives (1080) 29
Weichselbaum, R.R., see Halpern, H.J. (1093) 121
Weidner, U., Sackmann, U., Nehls, U. and Weiss, H.
Primary structure of the nuclear-encoded 18.3 kDa subunit of NADH:ubiquinone reductase (complex I) from *Neurospora crassa* mitochondria (1089) 391
Weidner, U., see Preis, D. (1090) 133
Weidner, U., see Van der Pas, J.C. (1089) 389
Weijers, P.J., see Heikoop, J.C. (1097) 62
Weiler, E.W., see Serrano, R. (1062) 157
Weiler, R., see Schmidle, T. (1060) 251
Weimer, B.D., see Van Winkle, L.J. (1068) 231
Weinberg, P., see Maroudas, A. (1073) 285
Weinhold, P.A., Charles, L.G. and Feldman, D.A.
Microsomal CTP: choline phosphate cytidylyltransferase: kinetic mechanism of fatty acid stimulation (1086) 57
Weinstein, M., Alfassi, Z.B., DeFelippis, M.R., Klapper, M.H. and Faraggi, M.
Long range electron transfer between tyrosine and tryptophan in hen egg-white lysozyme (1076) 173
Weir, M.P., see Dryden, D. (1078) 94
Weis, C.P., see Kutchai, H. (1064) 49
Weis, C.P., see Mahaney, J.E. (1064) 55
Weisbeek, P.J., see De Boer, A.D. (1071) 221
Weiser, T. and Bentrup, F.-W.
Charybdotoxin blocks cation-channels in the vacuolar membrane of suspension cells of *Chenopodium rubrum* L. (1066) 109
Weiss, H., Friedrich, F., Paulmichl, M., Wöll, E. and Lang, F.
Effect of BHT 920 on calcium-activated K^+ channels in renal epitheloid MDCK cells (1069) 165
Weiss, H., see Nehls, U. (1088) 325
Weiss, H., see Preis, D. (1090) 133
Weiss, H., see Van der Pas, J.C. (1089) 389
Weiss, H., see Weidner, U. (1089) 391
Weiss, J.B., see McLaughlin, B. (1073) 295
Weiss, M.A., see Hua, Q.-X. (1078) 101
Weiss, M.S., see Welte, W. (1080) 271
Weiss, R.S., see Bersohn, M.M. (1062) 19
Weissig, V., see Niedermann, G. (1070) 401
Welinder, K.G.
Bacterial catalase-peroxidases are gene duplicated members of the plant peroxidase superfamily (1080) 215
Wells, V., see Chiariotti, L. (1089) 54
Welte, W., Weiss, M.S., Nestel, U., Weckesser, J., Schiltz, E. and Schulz, G.E.
Prediction of the general structure of OmpF and PhoE from the sequence and structure of porin from *Rhodobacter capsulatus*. Orientation of porin in the membrane (1080) 271
Welti, R., see Roth, M.R. (1063) 242
Wendling, U., see Syha-Jedelhauser, J. (1089) 414
Wendoloski, J.J., see Weber, P.C. (1058) 83
Wennergren, M., see Percy, P. (1084) 173
Werbin, H., see Shay, J.W. (1072) 1

Werner, D., see Schmidt, G. (1088) 442
Werner, E., see Sixou, S. (1088) 135
Werner, S., see Preis, D. (1090) 133
Wesche, D., see Jones, G.L. (1096) 33
Wessels, R., see Scheibe, R. (1076) 1
West, D.W., see Small, C.A. (1082) 251
Westermann, R., see Krüppel, T. (1062) 193
Westlund, P., Palmblad, J., Falck, J.R. and Lumin, S.
Synthesis, structural identification and biological activity of 11,12-dihydroxyeicosatetraenoic acids formed in human platelets (1081) 301
Wetterholm, A., Medina, J.F., Rådmark, O., Shapiro, R., Haeggström, J.Z., Vallee, B.L. and Samuelsson, B.
Recombinant mouse leukotriene A_4 hydrolase: a zinc metalloenzyme with dual enzymatic activities (1080) 96
Wever, R., see Tromp, M. (1079) 53
Wevers, R.A., see Jacobs, A.E.M. (1096) 14
Wey, J., see Stankowski, S. (1068) 61
Whalley, T.D., see Lillie, T.H.W. (1094) 355
Wharton, S.A., see Burger, K.N.J. (1065) 121
Wheeler, J.J., Gross, W., Assefa, H. and Boss, W.F.
Phosphorylation of lysophosphatidylinositol by carrot membranes (1086) 310
Whelly, S.M., Rasmussen, K.R., Skudlarek, J. and Barker, K.L.
Isolation and characterization of an estrogen-regulated ribosome-associated inactivator of tRNA aminoacylation in the uterus (1092) 218
Whitelock, J.M., O'Grady, R.L. and Gibbins, J.R.
The identification, purification and characterisation of an inhibitor of collagenase (20K) produced by neoplastic epithelial cells (1073) 107
Whitfeld, P.R., see Munn, A.L. (1060) 82
Whitfill, C., see Mauri, F. (1078) 63
Whitsett, J.A., see Tsao, F.H.C. (1081) 141
Whyte, B.S., see Peterson, R.P. (1064) 165
Wickham, G., Prakash, A.S., Wakelin, L.P.G. and McFadyen, W.D.
DNA-binding properties and antitumour activity of monofunctional alkylating groups attached to the DNA-intercalating chromophore phenanthridine : *n*-bromoalkylphenanthridinium bromides (1073) 528
Wiemann, S., Voß, H., Kinzel, V. and Pyerin, W.
Rat Cα catalytic subunit of the cAMP-dependent protein kinase: cDNA sequence and evidence that it is the only isoform expressed in myoblasts (1089) 254
Wiemer, E.A.C., Out, M., Schelen, A., Wanders, R.J.A., Schutgens, R.B.H., Van Den Bosch, H. and Tager, J.M.
Phenotypic heterogeneity in cultured skin fibroblasts from patients with disorders of peroxisome biogenesis belonging to the same complementation group (1097) 232
Wierzchowski, K.L., see Vesterman, B. (1079) 39
Wiklund, O., see Camejo, G. (1096) 253
Wikstrand, C.J., see Gottfries, J. (1081) 253
Wilcox, H.C., see Castellani, L.W. (1086) 197
Wilcox, H.G. and Heimberg, M.
Effects of hyperthyroidism on synthesis, secretion and metabolism of the VLDL apoproteins by the perfused rat liver (1081) 246
Wilkie, D.R., see Bell, J.D. (1096) 101
Wilkins, M.B., see McNaughton, G.A.L. (1093) 189
Williams, A.J., see Lindsay, A.R.G. (1064) 89
Williams, E.A. and Morrison, J.F.
Characterization of tightly bound substrates in pure preparations of dihydrofolate reductase: implications for studies on enzymes (1078) 47
Williams, J.A., see Kitagawa, M. (1073) 129
Williams, J.A., see Tsunoda, Y. (1091) 251
Williams, M.L., Coleman, R.A., Placezk, D. and Grunfeld, C.
Neutral lipid storage disease: a possible functional defect in phospholipid- linked triacylglycerol metabolism (1096) 162
Williams, P.A., see Bohnsack, J.F. (1079) 222
Williams, P.F., see Blair, S.C. (1085) 385
Williams, P.J., Wormald, M.R., Dwek, R.A., Rademacher, T.W., Parker, G.F. and Roberts, D.R.
Characterisation of oligosaccharides from *Drosophila melanogaster* glycoproteins (1075) 146
Williams, R.J.P.
Uncoupled and coupled electron transfer reactions (1058) 71
Williams, R.J.P., see Bartsch, R.G. (1058) 1
Williams, W.P., Quinn, P.J., Tsonev, L.I. and Koynova, R.D.
The effects of glycerol on the phase behaviour of hydrated distearoylphosphatidylethanolamine and its possible relation to the mode of action of cryoprotectants (1062) 123
Williams, W.P., see Sanderson, P.W. (1067) 43
Williams Jr., D.L., see Bednar, D.L. (1092) 226
Williamson, D.H., see Evans, R.D. (1086) 191
Williamson, G., see Belshaw, N.J. (1078) 117
Williamson, I.K., see Middleton, P.G. (1090) 109
Williamson, J.R., see Reiser, K.M. (1097) 55
Williamson, P., see Kundu, M. (1096) 205
Wills, N.K., see Lewis, S.A. (1070) 99
Wilschut, J., see Spruijt, R.B. (1065) 217
Wilson, A., see Livingstone, C. (1096) 127
Wilson, F.A., see Lin, M.C. (1078) 329
Wilson, T.H., see King, S.C. (1062) 177
Winand, J., Poloczek, P., Delporte, C., Moroder, L., Svoboda, M. and Christophe, J.
Functional cholecystokinin receptors are distinguished kinetically by biotinyl-Tyr-Gly-(Thr^{28},Nle^{31})CCK(25–33) in rat pancreatic acini (1080) 181
Windecker, R., see Dau, H. (1057) 337
Winkfein, R.J., see Garber, A.T. (1087) 256
Winkler, H., see Schmidle, T. (1060) 251
Winkler, J.D., Sung, C.-M., Bennett, C.F. and Chilton, F.H.
Characterization of CoA-independent transacylase activity in U937 cells (1081) 339
Winner, D.L., see Earles, S.M. (1081) 174
Wins, P., see Bettendorff, L. (1073) 69
Winterhalter, K.H., see Kunz, B.C. (1063) 226
Winterhalter, K.H., see Vergères, G. (1063) 235
Winzor, D.J., see Hogg, P.J. (1073) 609
Wirtz, K.W.A., see Gadella Jr., T.W.J. (1070) 237
Wirtz, K.W.A., see Verbist, J. (1063) 1
Wirtz, R.A., see Verma, J.N. (1066) 229
Wise, W.C., see Geisel, J. (1085) 15
Witt, H.T., see Kretschmann, H. (1059) 208
Wittinghofer, A., see Kalbitzer, H.R. (1078) 133
Wittmann, H.-G., see Boeckh, T. (1075) 50
Wodtke, E. and Cossins, A.R.
Rapid cold-induced changes of membrane order and Δ^9-desaturase activity in endoplasmic reticulum of carp liver: a time-course study of thermal acclimation (1064) 343
Woffendin, C., Chen, Z., Staskus, K., Retzel, E.F. and Plagemann, P.G.W.
Mammalian mRNAs encoding protein closely related to ubiquitin-conjugating enzyme encoded by yeast DNA repair gene *RAD6* (1090) 81
Wohlfart, P., see Friedel, U. (1061) 247
Wojenski, C.M., Silver, M.J. and Walker, J.
Eicosapentaenoic acid ethyl ester as an antithrombotic agent: comparison to an extract of fish oil (1081) 33
Wolbring, G., see Friedel, U. (1061) 247
Wolf, S., see Schöbitz, B. (1095) 95
Wolff, R.L. and Entressangles, B.

Compositional changes of fatty acids in the 1(1″)- and 2(2″)-positions of cardiolipin from liver, heart, and kidney mitochondria of rats fed a low-fat diet (1082) 136
Wolfson, M.F., see Sellinger, O.Z. (1080) 110
Wöll, E., see Lang, F. (1073) 600
Wöll, E., see Weiss, H. (1069) 165
Wollenberg, G.K., see LaMarre, J. (1091) 197
Wolowyk, M.W., see Fincham, D.A. (1069) 123
Wolters, H., Spiering, M., Gerding, A., Slooff, M.J.H., Kuipers, F., Hardonk, M.J. and Vonk, R.J.
Isolation and characterization of canalicular and basolateral plasma membrane fractions from human liver (1069) 61
Wolvetang, E.J., Tager, J.M. and Wanders, R.J.A.
Factors influencing the latency of the peroxisomal enzyme dihydroxyacetone-phosphate acyltransferase (DHAP-AT) in permeabilized human skin fibroblasts (1095) 122
Wondergem, R., see Wang, K. (1069) 187
Wong, K.P., see Sit, K.H. (1092) 180
Wong, M.-W., see Ho, W.K.K. (1090) 245
Wong Fong Sang, H.W., see Lankelma, J. (1093) 147
Wood, J.M. and Schallreuter, K.U.
Studies on the reactions between human tyrosinase, superoxide anion, hydrogen peroxide and thiols (1074) 378
Wood, J.M., see Schallreuter, K.U. (1096) 277
Wood, P.M.
Why do *c*-type cytochromes exist? – Reprise (1058) 5
Wood, W.G., see Schroeder, F. (1066) 183
Woodham, R.H., see Bell, J.D. (1096) 101
Woodworth, R.C., see Banfield, D.K. (1089) 262
Woo Park, J. and Sauer, K.
Subunit selective bleaching of C-phycocyanin from *Synechococcus* PCC 6301 strain AN 112 by Cu^{2+} and sodium perchlorate (1056) 181
Wooten, J.T., see Otto, D.A. (1082) 37
Wootton, J.C., Nicolson, R.E., Cock, J.M., Walters, D.E., Burke, J.F., Doyle, W.A. and Bray, R.C.
Enzymes depending on the pterin molybdenum cofactor: sequence families, spectroscopic properties of molybdenum and possible cofactor-binding domains (1057) 157
Worm-Breitgoff, C., see Huth, W. (1077) 1
Wormald, M.R., see Williams, P.J. (1075) 146
Worthen, G.S., see Clay, K.L. (1094) 43
Worthington, C.R., see Murthy, N.S. (1062) 172
Woussen-Colle, M.-C., see Gourlet, P. (1066) 245
Woynarowski, J.M., see Beerman, T.A. (1090) 52
Wozniak, M., Tanfani, F., Bertoli, E., Zolese, G. and Antosiewicz, J.
A new fluorescence method to detect singlet oxygen inside phospholipid model membranes (1082) 94
Wragg-Légaré, S., see Autexier, C. (1088) 147
Wraight, C.A., see Gao, J.-L. (1056) 259
Wray, S., see Brown, G.C. (1057) 273
Wrigglesworth, J., see Benga, G. (1061) 309
Wright, E.M., see Hediger, M.A. (1064) 360
Wright, J.A., see Damen, J.E. (1097) 103
Wright, J.A., see Hurta, R.A.R. (1087) 165
Wright, J.K., Cawston, T.E. and Hazleman, B.L.
Transforming growth factor beta stimulates the production of the tissue inhibitor of metalloproteinases (TIMP) by human synovial and skin fibroblasts (1094) 207
Wright, J.M., see Denovan-Wright, E.M. (1088) 25
Wright, L.S., Collins, J.H., Finn, K.A. and Siegel, F.L.
A calmodulin endoproteinase from mitochondrial membranes (1079) 174
Wright, P.E., see Bakan, D.A. (1079) 182
Wright, W.E., see Shay, J.W. (1072) 1
Wrzosek, A., see Pikuła, S. (1061) 206
Wrzosek, A., see Pilarska, M. (1068) 167
Wu, D.W., Duman, J.G. and Xu, L.
Enhancement of insect antifreeze protein activity by antibodies (1076) 416
Wu, H.I., see Gazzano, H. (1077) 99
Wu, J., see Sheppard, A. (1076) 156
Wu, J., see Sturgill, T.W. (1092) 350
Wu, M., see Sentjurc, M. (1073) 329
Wu, R.-D., see Chander, A. (1086) 157
Wu, W., see Chi, L.-M. (1062) 46
Wu, X., see Carrasquer, G. (1069) 181
Wu, Y.N. and Wagner, P.D.
Effects of phosphatase inhibitors and a protein phosphatase on norepinephrine secretion by permeabilized bovine chromaffin cells (1092) 384
Wullink, W., Knudsen, J., Olson, J.M., Redlinger, T.E. and Van Bruggen, E.F.J.
Localization of polypeptides in isolated chlorosomes from green phototrophic bacteria by immuno-gold labeling electron microscopy (1060) 97
Wunderlich, I., see Huth, W. (1077) 1
Wuytack, F., see Eggermont, J.A. (1088) 448
Wuytack, F., see Verbist, J. (1063) 1
Wykle, R.L., see Bauldry, S.A. (1084) 178
Wynn, M., see Hobbs, J.D. (1059) 37
Wyss, P.A., Carter, B.E., Boynton, S.B., Connor, E., Fowler, B. and Roth, K.S.
Renal heme metabolism in hereditary tyrosinemia: use of succinylacetone in rat renal tubules (1070) 300

X

Xiao, Y., see Liu, C. (1057) 373
Xie, X. and Simon, J.D.
A picosecond circular dichroism study of photosynthetic reaction centers from *Rhodobacter sphaeroides* (1057) 131
Xie, Z., see Askari, A. (1069) 127
Xu, J.-x., see Liu, C. (1057) 373
Xu, L., see Wu, D.W. (1076) 416
Xu, Q., see Kutchai, H. (1064) 49
Xu, Y.-H., see George, S.K. (1066) 131

Y

Yabuki, N. and Ashihara, H.
Catabolism of adenine nucleotides in suspension-cultured plant cells (1073) 474
Yacko, M.A., Vanaman, T.C. and Butterfield, D.A.
Spin labeling studies of wheat germ calmodulin in solution (1064) 7
Yada, R.Y., see Brown, E.D. (1076) 406
Yae, Y., Inaba, S., Sato, H., Okochi, K., Tokunaga, F. and Iwanaga, S.
Isolation and characterization of a thermolabile β-2 macroglycoprotein ('thermolabile substance' or 'Hakata antigen') detected

by precipitating (auto) antibody in sera of patients with systemic lupus erythematosus (1078) 369
Yagi, K., see Inagaki, T. (1077) 285
Yaguzhinskij, L.S., see Gordeliy, V.I. (1061) 39
Yamada, H., see Nakano, S. (1094) 263
Yamada, J., Sakuma, M., Ikeda, T., Fukuda, K. and Suga, T.
Characteristics of dehydroepiandrosterone as a peroxisome proliferator (1092) 233
Yamada, K., see Kuzuya, M. (1084) 198
Yamada, K., see Matsura, T. (1083) 277
Yamada, K., see Satoh, O. (1063) 155
Yamada, N., see Mokuno, H. (1082) 63
Yamada, N., see Shimano, H. (1086) 245
Yamada, N., see Shimano, H. (1090) 91
Yamada, Y., see Yoshino, M. (1073) 200
Yamagami, T., see Fujita, H. (1090) 311
Yamaguchi, H., see Ikehara, T. (1068) 87
Yamaguchi, K., see Fueki, T. (1089) 325
Yamaguchi, K., see Kobayashi, T. (1078) 383
Yamaguchi, O., see Kimura, Y. (1075) 6
Yamaguchi, T., see Okamura, Y. (1073) 538
Yamaguchi, Y., see Quarfordt, S.H. (1082) 247
Yamakawa, M., Watahiki, M., Kamioka, Y., Yamamoto, M., Tanaka, M., Nishiguchi, Y. and Nakashima, K.
Nucleotide sequence of cDNA and primary structure for hard tail growth hormone (1087) 247
Yamakawa, T., see Morishita, H. (1090) 216
Yamamoto, H., see Hara, A. (1075) 61
Yamamoto, H., see Tomoda, T. (1088) 359
Yamamoto, I., see Tanaka, M. (1078) 127
Yamamoto, M., see Fujita, H. (1090) 311
Yamamoto, M., see Holthuizen, P. (1087) 341
Yamamoto, M., see Ikejiri, K. (1089) 77
Yamamoto, M., see Yamakawa, M. (1087) 247
Yamamoto, S., see Hada, T. (1083) 89
Yamamoto, S., see Matsuda, S. (1084) 202
Yamamoto, S., see Natsui, K. (1085) 241
Yamamoto, T., see Shibuya, Y. (1077) 316
Yamamoto, T., see Shibuya, Y. (1097) 23
Yamanaka, H., see Watanabe, F. (1075) 36
Yamanaka, M., see Takikawa, H. (1081) 39
Yamanaka, M., see Takikawa, H. (1091) 173
Yamanaka, T., Nagano, T., Shoji, K. and Fukumori, Y.
Cytochromes *c* of *Nitrobacter winogradskyi* and *Thiobacillus novellus*: structure, function and evolution (1058) 48
Yamaoka, T., see Nishimura, C. (1078) 171
Yamasaki, E.F., see Wani, A.A. (1088) 259
Yamasaki, T., see Chijiiwa, K. (1086) 44
Yamashiro, S., see Towner, R.A. (1096) 222
Yamashita, A., Sato, E., Yasuda, H., Kurokawa, T. and Ishibashi, S.
Reduction of mono(ADP-ribosyl)ation of 20 kDa protein with maturation in rat testis: Involvement of guanine nucleotides (1091) 46
Yamashita, H., see Kim, K.S. (1085) 343
Yamashita, K., see Nishimura, C. (1078) 171
Yamashoji, K., see Yamashoji, S. (1059) 99
Yamashoji, S., Ikeda, T. and Yamashoji, K.
Extracellular generation of active oxygen species catalyzed by exogenous menadione in yeast cell suspension (1059) 99
Yamauchi, A., see Asada, H. (1080) 34
Yamauchi, K., see Kobayashi, T. (1077) 11
Yamazaki, M., Ohshika, M. and Ito, T.
Phase separation of Triton X-100 micelle solution induced by osmotic stress (1063) 175
Yamazaki, M., see Okamura, Y. (1073) 538
Yanaga, F., Hirata, M. and Koga, T.
Evidence for coupling of bradykinin receptors to a guanine-nucleotide binding protein to stimulate arachidonate liberation in the osteoblast-like cell line, MC3T3-E1 (1094) 139
Yanagisawa, H., Nagasawa, T., Kuramochi, S., Abe, T., Ikawa, Y. and Todokoro, K.
Constitutive expression of exogenous c-*myb* gene causes maturation block in monocyte-macrophage differentiation (1088) 380
Yaneva, M. and Jhiang, S.
Expression of the Ku protein during cell proliferation (1090) 181
Yang, C.-Z., see Compadre, C.M. (1079) 43
Yang, G.-Z., see Compadre, C.M. (1079) 43
Yang, T.-H., see Yu, C. (1075) 141
Yang, W.-J., Matsuda, Y., Inomata, M. and Nakagawa, H.
Developmental and dietary induction of the 90K subunit of rat intestinal phytase (1075) 83
Yang, W.-J., Matsuda, Y., Sano, S.-i., Masutani, H. and Nakagawa, H.
Purification and characterization of phytase from rat intestinal mucosa (1075) 75
Yannoukakos, D., Meyer, H.E., Vasseur, C., Driancourt, C., Wajcman, H. and Bursaux, E.
Three regions of erythrocyte band 3 protein are phosphorylated on tyrosines: characterization of the phosphorylation sites by solid phase sequencing combined with capillary electrophoresis (1066) 70
Yannoukakos, D., Vasseur, C., Piau, J.-P., Wajcman, H. and Bursaux, E.
Phosphorylation sites in human erythrocyte band 3 protein (1061) 253
Yap, S.H., Moshage, H.J., Hazenberg, B.P.C., Roelofs, H.M.J., Bijzet, J., Limburg, P.C., Aarden, L.A. and Van Rijswijk, M.H.
Tumor necrosis factor (TNF) inhibits interleukin (IL)-1 and/or IL-6 stimulated synthesis of C-reactive protein (CRP) and serum amyloid A (SAA) in primary cultures of human hepatocytes (1091) 405
Yappert, M.C., see Lamba, O.P. (1081) 181
Yasuda, A., see Kobayashi, T. (1078) 383
Yasuda, H., see Fujii, Y. (1063) 90
Yasuda, H., see Kawaguchi, H. (1094) 161
Yasuda, H., see Yamashita, A. (1091) 46
Yasuda, K., see Nakayama, R. (1085) 235
Yasutomo, Y., see Wada, S. (1074) 182
Yatsunami, K., see Hashimoto, H. (1095) 140
Yatsunami, K., see Takahashi, S. (1093) 207
Yau-Young, A., see Allen, T.M. (1066) 29
Yaxley, J.C., see Murphy, J.J. (1092) 110
Yazaki, Y., see Shimano, H. (1086) 245
Yazaki, Y., see Shimano, H. (1090) 91
Yeagle, P.L., Epand, R.M., Richardson, C.D. and Flanagan, T.D.
Effects of the 'fusion peptide' from measles virus on the structure of *N*-methyl dioleoylphosphatidylethanolamine membranes and their fusion with Sendai virus (1065) 49
Yeaman, S.J., see Small, C.A. (1082) 251
Yee, T., see Dalal, K.B. (1070) 253
Yefremov, Y.J., see Grechkin, A.N. (1081) 79
Yeh, C.-K., Chinchetru, M.A. and Kousvelari, E.
Characteristics of c-*fos* and *jun* B gene expression in A5 cells after β-adrenoreceptor stimulation and during the cell cycle (1090) 173
Yeung, H.W., see Ho, W.K.K. (1088) 311
Yezepchuk, Y.V., see Krasilnikov, O.V. (1067) 166
Yin, C.-C., Schurtenberger, P., Wehrli, E., Paltauf, F. and Hauser, H.
The effect of monoacylglycerol on the phase behavior of egg phosphatidylcholine (1070) 33
Ymbern, A., see Solsona, C. (1095) 57
Yocum, C.F.
Calcium activation of photosynthetic water oxidation (1059) 1

Yohda, M., Okada, H. and Kumagai, H.
Molecular cloning and nucleotide sequencing of the aspartate racemase gene from lactic acid bacteria *Streptococcus thermophilus* (1089) 234
Yohda, M., see Okada, H. (1078) 377
Yokota, Y., see Mizuno, M. (1084) 21
Yokoyama, R., see Nomura, T. (1092) 94
Yokoyama, S., see Francis, G.A. (1084) 159
Yokoyama, S., see Milner, T.G. (1082) 71
Yonemasu, K., Sasaki, T., Dohi, Y., Lapière, C.M. and Nusgens, B.
C1q, a collagen-like complement subcomponent, in dermatosparactic cattle: its extracellular modification is not affected by lack of procollagen N-terminal proteinase (pN-proteinase) (1096) 47
Yonetani, T., see Hori, H. (1077) 392
Yonezawa, S. and Nakamura, K.
Species-specific distribution of cathepsin E in mammalian blood cells (1073) 155
Yoon, T.H., see Mokuno, H. (1082) 63
Yorek, M.A. and Dunlap, J.A.
Resting membrane potential in 41A3 mouse neuroblastoma cells. Effect of increased glucose and galactose concentrations (1061) 1
Yoshida, H., see Takeuchi, H. (1078) 307
Yoshida, S., see Ishihara, H. (1084) 53
Yoshida, Y., see Aoyama, Y. (1081) 262
Yoshikawa, K., see Matsumoto, K. (1092) 311
Yoshimoto, A., see Sakajo, S. (1090) 102
Yoshimoto, T., see Matsuda, S. (1084) 202
Yoshimura, A., see Ichikawa, M. (1073) 309
Yoshimura, T., see Iwasaki, H. (1058) 79
Yoshimura, T., see Maezawa, S. (1070) 429
Yoshinaga, T., see Fujita, H. (1090) 311
Yoshino, M., Yamada, Y. and Murakami, K.
Activation by spermine of citrate synthase from porcine heart (1073) 200
Yoshino, T., see Kubota, Y. (1079) 73
Yoshioka, K., see Sato, H. (1073) 442
Young, A., see Noctor, G. (1057) 320
Young, A., see Ruban, A.V. (1059) 355
Young, A.J. and Barker, K.L.
Effect of estradiol and progesterone on long chain fatty acyl-coenzyme A levels in the rat uterus (1092) 211
Young, J.-J., see Yu, C. (1075) 141
Young, J.D., Fincham, D.A. and Harvey, C.M.
Cation and harmaline interactions with Na^+-independent dibasic amino acid transport system y^+ in human erythrocytes and in erythrocytes from a primitive vertebrate the pacific hagfish (*Eptatretus stouti*) (1070) 111
Young, J.D., see Fincham, D.A. (1069) 123
Young, P.R., Karanutilake, C. and Zygas, A.P.
Binding of cathepsin D to the mannose receptor on rat peritoneal macrophages (1095) 1
Yount, N.Y., Carr, T.P., McNamara, D.J. and Lei, K.Y.
Incorporation of tritiated water into sterol in copper-deficient rats (1082) 79
Yount, N.Y. and McNamara, D.J.
Dietary regulation of maternal and fetal cholesterol metabolism in the guinea pig (1085) 82
Youvan, D.C., see Peloquin, J.M. (1056) 85
Yu, C., Yang, T.-H. and Young, J.-J.
The conformation of echinomycin in DMSO solution (1075) 141
Yu, C.-A., see Li, L.-B. (1057) 215
Yu, C.-A., see Paudel, H.K. (1056) 159
Yu, C.-W., see Hung, S.-H. (1090) 255
Yu, L., see Li, L.-B. (1057) 215
Yu, L., see Paudel, H.K. (1056) 159
Yu, L.P., see Smith, G.M. (1058) 75
Yu, N.-T., see Hori, H. (1077) 392
Yu, X., see Spencer, G.G. (1063) 15
Yuan, C.-S., see Ueno, R. (1074) 79
Yuan, Y. and Reddy, R.
5′ Flanking sequences of human MRP/7-2 RNA gene are required and sufficient for the transcription by RNA polymerase III (1089) 33
Yue, K.T., Lee, M., Zheng, J. and Callender, R.
The determination of the pK_a of histidine residues in proteins by Raman difference spectroscopy (1078) 296
Yue, K.T., see Lai, K.K. (1060) 25
Yunoki, K., see Ohira, Y. (1097) 117

Z

Zachowski, A., see Geldwerth, D. (1082) 255
Zaitsev, S.V., see Sud'ina, G.F. (1091) 257
Zakula, Z. and Moudgil, V.K.
Interaction of rat liver glucocorticoid receptor with a newly synthesized antisteroid ZK98299 (1092) 188
Zaman, G., Smetsers, A., Kaan, A., Schoenmakers, J. and Konings, R.
Regulation of expression of the genome of bacteriophage M13. Gene V protein regulated translation of the mRNAs encoded by genes I, III, V and X (1089) 183
Zammit, V.A., see Emmison, N. (1083) 147
Zammit, V.A., see Graham, A. (1081) 151
Zancani, M., see Vianello, A. (1060) 299
Zandberg, J., see Van Mansfeld, A.D.M. (1087) 235
Zaniewski, R., see Hou, K.C. (1073) 149
Zannis-Hadjopoulos, M., see Bell, D. (1089) 299
Zannis-Hadjopoulos, M., see Landry, S. (1088) 234
Zannis-Hadjopoulos, M., see Pearson, C.E. (1090) 156
Zanotti, F., see Guerrieri, F. (1059) 348
Zapf, J.W., see Zhang, H. (1077) 35
Zapponi, M.C., see Bellotti, V. (1097) 177
Zara, V., see De Pinto, V. (1061) 279
Zavoico, G.B., see Luzzatto, G. (1084) 78
Zazueta, C., see Chávez, E. (1070) 461
Zborowski, J., see Szymańska, G. (1083) 265
Zecca, L., Ferrario, P., Margonato, V., Cerretelli, P. and Zonta, N.
Neurotransmitter amino acid variations in striatum of rats exposed to 50 Hz electric fields (1075) 1
Zegers, N.D., Claassen, E., Neelen, C., Mulder, E., Van Laar, J.H., Voorhorst, M.M., Berrevoets, C.A., Brinkmann, A.O., Van der Kwast, T.H., Ruizeveld de Winter, J.A., Trapman, J. and Boersma, W.J.A.
Epitope prediction and confirmation for the human androgen receptor: Generation of monoclonal antibodies for multi-assay performance following the synthetic peptide strategy (1073) 23
Zehnder, A.J.B., see Houwen, F.P. (1056) 126
Zelent, B., see Gruszecki, W.I. (1056) 173
Zeleznikar, Jr., R.J., see Walseth, T.F. (1094) 113
Zérouga, M., Beaugé, F., Niel, E., Durand, G. and Bourre, J.M.
Interactive effects of dietary ($n-3$) polyunsaturated fatty acids and chronic ethanol intoxication on synaptic membrane lipid composition and fluidity in rats (1086) 295
Žerovnik, E., Lenarčič, B., Jerala, R. and Turk, V.
Folding studies of the cysteine proteinase inhibitor – human stefin A (1078) 313
Zevgolis, V.G., Sotiroudis, T.G. and Evangelopoulos, A.E.
Phosphorylase kinase from bovine stomach smooth muscle: a

Ca^{2+}-dependent protein kinase associated with an actin-like molecule (1091) 222
Zhang, B., see Seki, S. (1079) 57
Zhang, H., Cisneros, R.J., Deng, W., Zapf, J.W., Johnson, L.F. and Dunlap, R.B.
Purification and characterization of recombinant mouse thymidylate synthase (1077) 35
Zhang, J., see Schwartz, M. (1062) 113
Zhang, J.-R. and Sevanian, A.
Effect of vitamin E on arachidonic acid peroxidation and its binding to Chinese hamster V79 cell DNA (1085) 159
Zhang, R., Barnes, S. and Diasio, R.B.
Disposition and metabolism of 2-fluoro-β-alanine conjugates of bile acids following secretion into bile (1096) 179
Zhang, Z., see Mayes, S.R. (1060) 1
Zheng, J., see Yue, K.T. (1078) 296
Zheng, Q. and Chang, D.C.
High-efficiency gene transfection by in situ electroporation of cultured cells (1088) 104
Zheng, Z., see Petty, H.R. (1064) 308
Zhou, J.-M., see Wei, J. (1080) 29
Zhou, M.-j., see Petty, H.R. (1064) 308
Zhou, Q., Jimi, S., Smith, T.L. and Kummerow, F.A.
The effect of cholesterol on the accumulation of intracellular calcium (1085) 1
Zhou, X., Klibanov, A.L. and Huang, L.
Lipophilic polylysines mediate efficient DNA transfection in mammalian cells (1065) 8
Zhou, X., see Bohnsack, J.F. (1079) 222
Zhu, J.-d., Sun, X.-p. and Wang, F.
The DNA intercalator, ethidium bromide, alters the pattern of DNAse I hypersensitive sites of the β^A-globin gene in chicken erythrocytes (1089) 158
Zhuo, S., see Bullough, D.A. (1057) 208
Ziegler, K., Lins, W. and Frimmer, M.
Hepatocellular transport of cyclosomatostatins: evidence for a carrier system related to the multispecific bile acid transporter (1061) 287
Ziegler, K., see Bertrams, A. (1091) 337
Ziegler, K., see Bertrams, A.A. (1073) 213
Ziegler, K., see Toelge, M. (1060) 233
Zilberter, Y.I. and Motin, L.G.
Existence of two fast inactivation states in cardiac Na channels confirmed by two-stage action of proteolytic enzymes (1068) 77
Zilversmit, D.B., see Quig, D.W. (1083) 257
Zimmerman, U.-J.P. and Schlaepfer, W.W.
Two-stage autolysis of the catalytic subunit initiates activation of calpain I (1078) 192
Zimmermann, U., see Alder, G.M. (1061) 111
Zimmermann, U., see Pfister, E. (1062) 13
Zinker, S., see Campos, F. (1087) 142
Zippel, R., see Morello, L. (1092) 397
Zirwer, D., see Damaschun, G. (1078) 289
Zlatanova, J., see Banchev, T. (1073) 230
Zlatkine, P., El Yandouzi, E.H., Op den Kamp, J.A.F. and Le Grimellec, C.
Incorporation of exogenous phosphatidylcholine in the plasma membrane of MDCK cells by a specific transfer protein (1065) 225
Zniber, S., see Camougrand, N.M. (1057) 124
Zoccarato, F., Ruzzene, M., Cavallini, L., Doni, M.G., Francesconi, M.A., Deana, R. and Alexandre, A.
Platelet responses promoted by the activation of protein kinase C or the increase of cytosolic Ca^{2+} are potentiated by adrenaline. Effects of cAMP and staurosporine (1092) 72
Zoeller, R.A., see Gordon, J.A. (1085) 21
Zografi, G., see Tsao, F.H.C. (1081) 141
Zolese, G., see Wozniak, M. (1082) 94
Zonta, N., see Zecca, L. (1075) 1
Zöphel, A., see Adolf, G.R. (1089) 167
Zor, U., Her, E., Harell, T., Fischer, G., Naor, Z., Braquet, P., Ferber, E. and Reiss, N.
Arachidonic acid release by basophilic leukemia cells and macrophages stimulated by Ca^{2+} ionophores, antigen and diacylglycerol: essential role for protein kinase C and prevention by glucocorticosteroids (1091) 385
Zou, Y.-P., see Li, L.-B. (1057) 215
Zuber, H., see Li, N. (1059) 215
Zucchelli, G., see Jennings, R.C. (1060) 245
Zuckermann, M.J., see Jørgensen, K. (1062) 227
Zuckermann, M.J., see Jørgensen, K. (1067) 241
Zumft, W.G., see Blümle, S. (1057) 102
Zürcher, G., see Bertocci, B. (1080) 103
Zwaal, R.F.A., see Schroit, A.J. (1071) 313
Zwaal, R.F.A., see Vossen, R.C.R.M. (1083) 243
Zygas, A.P., see Young, P.R. (1095) 1
Zygmunt, J., see Hanzlik, R.P. (1073) 33

Subject Index
Volumes 1056–1097
1991

A

ABF1
Ribosomal protein gene; Transcription activation; (Yeast) (Kraakman, L.S. (1090) 204)

Ab initio calculation
Pyrophosphate hydrolysis; Gas-phase reaction; Enzyme mechanism (Saint-Martin, H. (1080) 205)

Absolute quantification
ATP; Phosphocreatine; Inorganic phosphate; NMR, ^{31}P-; Spectroscopy, ^{31}P-NMR; (Rat thigh muscle) (De Bisschop, E. (1094) 147)

Absorbance change
Photoinhibition; Photosystem II; Fluorescence induction; Photosystem heterogeneity; Membrane fractionation (Neale, P.J. (1056) 195)

Absorption
Purine metabolism; Intestinal transport; Enterocyte; (Guinea pig) (Gross, C.J. (1073) 260)

Adaptation; Alcohol; Cholesterol; Fatty acid; Galactose; Glucose; Hexose (Thomson, A.B.R. (1084) 122)

Absorption change
Photosynthesis; Oxygen evolution; Hydroxylamine; Manganese; S state; (*Synechococcus*) (Kretschmann, H. (1059) 208)

Absorption coefficient
Glucose transporter; High performance molecular-sieve chromatography; Low-angle laser light scattering; Laser light scattering; Octyl glucoside; Phospholipid; (Human erythrocyte) (Lundahl, P. (1067) 177)

Absorption spectroscopy
Oxygen-evolving system; S state; Manganese; Photosystem II center (Lavergne, J. (1060) 175)

Acceleration
Acetylcholinesterase; Aziridinium ion; Chemical modification (Sepp, A. (1077) 407)

Acceptor site
Poly(ADP-ribose) polymerase; Automodification domain (Desmarais, Y. (1078) 179)

Accumulation
Vitamin B-12; Cobalamin; Uptake; Coenzyme; Intracellular binding (Watanabe, F. (1075) 36)

A431 cell
Epidermal growth factor; Phosphoinositide; Phospholipase C; Phosphotyrosine; Plasma membrane (Payrastre, B. (1056) 19)

2-Acetamido
N-Acetylglucosaminidase; Affinity purification; Inhibition; Nojirimycin; (Bovine) (Legler, G. (1080) 89)

2-Acetylaminofluorene
NADH oxidase; Plasma membrane; Diferric transferrin; Carcinogen; (Rat liver) (Morré, D.J. (1057) 140)

Acetylated LDL
Cholesterol; Cholesteryl linoleyl ether; Littoral cell; (Hamster); (Rat) (Stein, O. (1081) 238)

Native LDL; LDL; Leukotriene B_4; (Human monocyte-macrophage) (Nigon, F. (1083) 230)

Acetylated low-density lipoprotein receptor
Oxidized low-density lipoprotein; Atherosclerosis; (Human endothelial cell) (Kume, N. (1091) 63)

***N*-Acetylation**
Cadmium-binding protein; Metallothionein; Mollusc; Protein structure; Tandem mass spectrometry (Roesijadi, G. (1074) 230)

Metallothionein; cDNA; Polymerase chain reaction; Polymerase chain reaction; Tandem mass spectrometry; Cadmium; (Mollusc); (Oyster) (Unger, M.E. (1074) 371)

Acetylcholine
Chloride deficiency; Pancreatic B cell (Hermans, M.P. (1092) 205)

Acetylcholine receptor
Channel kinetics; Temperature; Arrhenius plot (Dilger, J.P. (1063) 253)

Membrane topology; Probe; Nicotinic acetylcholine receptor; Phosphatidylserine; Cyanogen bromide; (*T. californica*) (Blanton, M.P. (1067) 1)

Acetylcholinesterase
Quasi-equilibrium; Dissociation constant; Computer simulation; Juxtaposal modulatory site (Salih, E. (1073) 183)

Glycosylphosphatidylinositol; Glycosylphosphatidylinositol-specific phospholipase C; Phosphatidylinositol specific phospholipase C; (*Cytophaga* sp.) (Jäger, K. (1074) 45)

Rose bengal; Photosensitization; Red blood cell; Singlet oxygen (Allen, M.T. (1075) 42)

Enzyme immunoassay; Leukotriene; (*E. electricus*) (Antoine, C. (1075) 162)

Enzyme-substrate inhibitor complex; Noncompetitive inhibition; Inhibition by substrate; Regulatory site (Cohen, S.G. (1076) 112)

Affinity labelling; Diazonium salt; Butyrylcholinesterase (Ehret-Sabatier, L. (1076) 137)

Sarcoplasmic reticulum; External localization (Cánovas-Muñoz, M.D. (1076) 259)

Aziridinium ion; Chemical modification; Acceleration (Sepp, A. (1077) 407)

Acetyl-CoA acetyltransferase
Mitochondrial protein; Protein modification; Coenzyme A modification; (Rat liver) (Huth, W. (1077) 1)

***N*-Acetylglucosaminidase**
Chitobiase; Chitinase; (*S. hygroscopicus*) (Irhuma, A. (1074) 1)

Affinity purification; Inhibition; Nojirimycin; 2-Acetamido; (Bovine) (Legler, G. (1080) 89)

Acetyl phosphate
ATPase, Na^+/K^+-; Enzyme conformation; Phosphorylation; Inorganic phosphate; (Pig kidney) (Berberián, G. (1063) 217)

Acetyltransferase
Human neutrophil; PAF; Phospholipase A_2; 5-Lipoxygenase; Alkylacylglycerol (Bauldry, S.A. (1084) 178)

***N*-Acetyltransferase**
Drug metabolism; Arylamine; (Tonsil lymphocyte); (U937 cells); (HepG2 cells) (Coroneos, E. (1073) 593)

α_1-Acid glycoprotein gene
mRNA; Acute-phase response; Gene regulation; Aging (Carter, K.C. (1089) 197)

Acidic fibroblast growth factor
Heparin-binding growth factor-1; HBGF-1; aFGF; Gene expression (Sullivan, D.E. (1090) 17)

Acidic lipid membrane
Magainin; Binding isotherm; Electrostatic interaction; Membrane fluidity; Secondary structure (Matsuzaki, K. (1063) 162)

Acidic phospholipid
Phosphatase; Calcium ion; Calcium pump; Erythrocyte; (Human) (Rossi, J.P.F.C. (1061) 49)

Doxorubicin; Lipid order and mobility; Drug–membrane interaction; Fluorescence; NMR (De Wolf, F.A. (1096) 67)

Acid metarhodopsin
Rhodopsin; Photoconversion; Conformational change; Cephalopod; X-ray scattering; Chromatofocusing (Hiraki, K. (1077) 355)

Acidosis
Sodium ion–proton exchange; Bicarbonate transport; Brush-border membrane vesicle; (Rat kidney) (Grassl, S.M. (1061) 226)

Cardiac structure; Function; Ischemia; Long-chain acylcarnitine; Carnitine palmitoylcoenzyme A transferase (Hülsmann, W.C. (1097) 263)

Acid phosphatase
Enzyme purification; Enzyme characterization; (*P. chrysogenum*) (Haas, H. (1074) 392)

Alkaline phosphatase; Synthetic peptide; Substrate specificity; Enzymology; Peptide dephosphorylation (Donella-Deana, A. (1094) 130)

Acinar cell
5-Lipoxygenase; Arachidonic acid; Leukotriene; Pancreas (Natsui, K. (1085) 241)

Acivicin
Amino acid transport; L-Alanine; L-Glutamine; γ-Glutamyltranspeptidase; Exocrine pancreas; (Rat) (Sastre, J. (1065) 213)

Acrosin
Serine proteinase; Amino acid sequence; Catalytic triad; Phylogenetic tree (Klemm, U. (1090) 270)

Actin
Cell protrusion; Electrical field; Dielectrophoresis (Popov, S.V. (1066) 151)

Phosphorylase kinase; Calcium ion; Smooth muscle; (bovine stomach) (Zevgolis, V.G. (1091) 222)

Regulation; mRNA; Phorbol ester; T cell antigen receptor; Protein kinase C; Cyclosporin A (Goodier, M.R. (1092) 124)

Actin binding site
Myosin heavy chain (Muhlrad, A. (1077) 308)

Actin polymerization
ATP; ADP; Thermodynamics; Calcium ion; Magnesium ion (Kinosian, H.J. (1077) 151)

Chemotaxis; Neutrophil; Heparin cofactor; cyclic AMP (Hoffman, M. (1095) 78)

β-Actin promoter
Gene expression; Copy number; (Human cell) (Morishita, H. (1090) 216)

Action potential
Optical recording; Optical fiber; Voltage-sensitive dye; Membrane fluorescence; Frog heart (Bowmaster, T.A. (1091) 9)

Action spectrum
Bacteriorhodopsin; Purple membrane; Photoelectric effect; Charge displacement current (McIntosh, A.R. (1056) 149)

Activation
Protein kinase C; Lipid regulation; Phosphatidylserine; Kinetic model; Hill coefficient; Ligand trapping (Sandermann, Jr., H. (1069) 235)

Monoclonal antibody; Platelet (Chau, L.-Y. (1074) 118)

Autolysis; Calcium ion dependence; Phosphatidylcholine; Phosphatidylinositol; Phosphatidylserine; Proteolysis (Cottin, P. (1079) 139)

Progelatinase metalloproteinase, 72 kDa; Metalloproteinase; Enzyme activation; TIMP-2; (Human fibroblast) (Ward, R.V. (1079) 242)

Trypsinogen; Trypsin; Zymogen; Enzyme kinetics (García-Moreno, M. (1080) 143)

Hepatic lipase; Apolipoprotein E; Mixed micelle; Phosphatidylcholine (Thuren, T. (1083) 217)

Activation enthalpy
Dielectric relaxation; Temperature dependence; Dielectric dispersion (Pedone, F. (1073) 580)

Active site
Glyceralde-3-phosphate dehydrogenase; Amino acid modification; Enzyme conformation; Arginine modification; Thiol group; (Rabbit muscle) (Kuzminskaya, E.V. (1075) 123)

Lysozyme; Site-directed mutagenesis; (Human) (Muraki, M. (1079) 229)

Aspartate aminotransferase; Archaebacterium; Pyridoxal binding peptide; (*S. solfataricus*) (Birolo, L. (1080) 198)

Peroxidase; Ligninase; Cytochrome *c* peroxidase; Heme; Evolution; Structure prediction (Welinder, K.G. (1080) 215)

Active site modification
Glyceraldehyde-3-phosphate dehydrogenase; Koningic acid; (Rabbit muscle) (Sakai, K. (1077) 192)

Active transport
Membrane transport; Iron transport; Non transferrin-bound iron; Transferrin; Reticulocyte; (Rabbit) (Qian, Z.M. (1073) 456)

Actomyosin interaction
Muscle contraction; Myosin; Fluorescence quenching; Myosin light chain (Bhandari, D.G. (1077) 385)

A-current
Transient outward current; Potassium current; Calcium current; (*E. vannus*) (Krüppel, T. (1062) 193)

Acute phase expression
Selective deadenylation; Lectin mRNA; mRNA; (*Sarcophaga*) (Nanbu, R. (1088) 71)

Acute-phase response
Interleukin-6; mRNA half-life (Nesbitt, J.E. (1089) 88)

α_1-Acid glycoprotein gene; mRNA; Gene regulation; Aging (Carter, K.C. (1089) 197)

1-Acyl-2-acetyl-*sn*-glycero-3-phosphocholine
Platelet activating factor; Neutrophil (Triggiani, M. (1084) 41)

1-*O*-Acyl-2-*O*-acetyl-*sn*-glycero-3-phosphocholine
Platelet activating factor; Endothelial cell; Phospholipid molecular species; Mass spectrometry; GC-MS (Clay, K.L. (1094) 43)

Acylcarnitine
Carnitine; Urinary carnitine; Carnitine homeostasis; (Rat) (Ruff, L.J. (1073) 543)

Carnitine; Carnitine acetyltransferase; Propionate; Pyruvate (Brass, E.P. (1095) 17)

Acyl carrier protein
Lipid composition; Plant lipid; Lipid synthesis (Ohlrogge, J.B. (1082) 1)

Acyl chain elongation
Cytochrome b_5; Fatty acid; Microsome; Desaturase; (Rat liver) (Demirkapi, N. (1082) 49)

Acyl-CoA
Phosphatidylcholine; Flip-flop; Arginine; Temperature dependence; (Human erythrocyte) (Andrick, C. (1064) 235)

Membrane lipid; Metabolism; Lipid partition; Free fatty acid; (Mouse sciatic nerve) (Juguelin, H. (1068) 41)

Very-long-chain fatty acid; Acyl-CoA elongase; (*L. annua*) (Fehling, E. (1082) 239)

Acyl-CoA acyltransferase
Microsome; Acyl-CoA:lysolipid acyltransferase; Lyso-PC:lyso-PS transacylase; Phosphatidylcholine transacylase; Phospholipid metabolism; (Mouse sciatic nerve) (Cassagne, C. (1070) 119)

Acyl-CoA binding to albumin
Carnitine palmitoyltransferase I; Albumin; Mitochondrion; Rat; Enzyme kinetics (Richards, E.W. (1076) 23)

Acyl-CoA:cholesterol acyltransferase
Enzyme kinetics; (HT29 cell); (Intestinal cell) (Viallard, V. (1085) 265)

Cholesterol; Hydroxymethylglutaryl-CoA reductase; LDL; HDL; Cell growth; (Rat intestine); (IEC-6 cell) (Reimann, F.M. (1085) 315)

Acyl-CoA elongase
Very-long-chain fatty acid; Acyl-CoA; (*L. annua*) (Fehling, E. (1082) 239)

Acyl-CoA ligase
Phenylacetic acid; Enzymatic assay; (*P. putida*) (Rodríguez-Aparicio, L.B. (1073) 431)

Acyl-CoA:lysolipid acyltransferase
Microsome; Acyl-CoA acyltransferase; Lyso-PC:lyso-PS transacylase; Phosphatidylcholine transacylase; Phospholipid metabolism; (Mouse sciatic nerve) (Cassagne, C. (1070) 119)

Acyl CoA:lysoPC acyltransferase
Lysophosphatidylcholine; Catabolism; Perfused heart; Lysophospholipase (Mock, T. (1084) 167)

Acyl-CoA oxidase
Peroxisome; Splicing; Regulation; Peroxisome proliferation (Bell, D.R. (1090) 211)

Acyldihydroxyacetone
Peroxisomal enzyme; Alkyldihydroxyacetone-phosphate synthase; Localization; TLC; (Rat liver) (Hardeman, D. (1081) 285)

Acylgramicidin
Acylprotein; DMPC; Gramicidin A; Monolayer; NMR; CD; HPLC (Vogt, T.C.B. (1069) 157)

2-Acyl lysoPI
Phospholipid remodelling; ATP-independent acylation (Darnell, J.C. (1084) 292)

Acylprotein
Acylgramicidin; DMPC; Gramicidin A; Monolayer; NMR; CD; HPLC (Vogt, T.C.B. (1069) 157)

Acyl transfer
α-Chymotrypsin; Charged nucleophile; Electrostatic interaction; Salt effect; Cation binding (Schellenberger, V. (1078) 1)

α-Chymotrypsin; Charged nucleophile; Electrostatic interaction; Salt effect (Schellenberger, V. (1078) 8)

Acyltransferase
Protein $p21^{ras}$; Cell-free system (Gutierrez, L. (1078) 147)

Peroxide; Phospholipid; Arachidonic acid; Erythrocyte; Ethanol (Allen, D.W. (1081) 267)

Fatty acid remodelling; Phospholipid; Deacylation; Reacylation (MacDonald, J.I.S. (1084) 105)

Adaptation
Absorption; Alcohol; Cholesterol; Fatty acid; Galactose; Glucose; Hexose (Thomson, A.B.R. (1084) 122)

Adenine nucleotide
Adenine nucleotide translocator; Ischemia; (Rat kidney) (Henke, W. (1056) 71)

Purine catabolism; Adenosine; Plant cell culture; (*C. roseus*) (Yabuki, N. (1073) 474)

Enzyme activation; Guanylate cyclase; (Rat lung) (Gazzano, H. (1077) 99)

Adenine nucleotide translocator
Adenine nucleotide; Ischemia; (Rat kidney) (Henke, W. (1056) 71)

Adenine transport
Carrier mobility; Hypoxanthine transport; Transport kinetics; (Human erythrocyte) (Kraupp, M. (1070) 157)

Adenocarcinoma cell
Glucocorticoid; Nitric oxide synthase; Cell damage (O'Connor, K.J. (1097) 227)

Adenosine
Cation/substrate cotransport; Sodium ion; Proton; (*V. parahaemolyticus*) (Okabe, Y. (1059) 332)

Purine catabolism; Adenine nucleotide; Plant cell culture; (*C. roseus*) (Yabuki, N. (1073) 474)

Adenosine deaminase
Nucleoside analog; 2′,3′-Dideoxyadenosine (Nair, V. (1078) 121)

***S*-Adenosyl-L-methionine**
Protein methylation; Brush-border membrane; (Rat kidney cortex) (Gingras, D. (1066) 261)

***S*-Adenosylmethionine**
Methionine adenosyltransferase; Cell line; (Human) (Åkerman, K. (1097) 140)

***S*-Adenosylmethionine synthetase**
Enzyme activation; Product inhibition; Human lymphocyte; Phosphate; Pyrophosphate (De La Rosa, J. (1077) 225)

Wheat embryo; Stored mRNA; Enzyme synthesis, de novo; Enzyme induction by methionine (Mathur, M. (1078) 161)

Adenovirus
NFI; NFIII; Oct-1; DNA replication (Coenjaerts, F.E.J. (1090) 61)

Adenylate cyclase
Pituitary; Helodermin; Vasoactive intestinal peptide analog; Peptide receptor; PACAP analog; (Human SUP-T1 lymphoblast) (Gourlet, P. (1066) 245)

Adenylate kinase; Lung cytosolic activator (Nupenko, E.V. (1091) 213)

Agonist; Phorbol ester; Desensitization; (Pig epidermis) (Iizuka, H. (1093) 95)

Prostaglandin E_1 receptor; GTP-binding protein; Mastocytoma P-815 cell; Desensitization; Signal transduction (Hashimoto, H. (1095) 140)

G protein; Diabetes; Protein expression; (Rat membrane) (Strassheim, D. (1096) 121)

G protein; Diabetes; Protein expression; (Rat membrane) (Livingstone, C. (1096) 127)

Adenylate cyclase activation
Dithiothreitol; Polyamine; Calcium ion; EDTA; cyclic AMP binding (*D. discoideum*) (Oyama, M. (1092) 85)

Adenylate kinase
Photophosphorylation; NMR, ^{31}P-; Chromatophore; ATPase, H^+-; (*C. vinosum*, *C. tepidum*) (Nozawa, T. (1060) 189)

Adenylate cyclase; Lung cytosolic activator (Nupenko, E.V. (1091) 213)

Adenylic acid
Alkaline earth; Conformational change; FTIR; NMR, ^{1}H-; X-ray diffraction (Tajmir-Riahi, H.-A. (1087) 49)

Adenylyl cyclase
Parotid; GTPase; β-Adrenoreceptor; G protein; Signal transduction; Cholera toxin (Hiramatsu, Y. (1092) 391)

ADH
Water permeation; Water diffusion; Antipyrine; cyclic AMP; Benzyl alcohol; (MDCK cell) (Giocondi, M.-C. (1064) 315)

Adipocyte differentiation
c-*fos* mRNA; IAP-sensitive G-protein; (3T3-L1 fibroblast) (Uehara, T. (1088) 41)

Adipose conversion
Prostaglandin; Prostacyclin; Preadipocyte; Differentiation; (Adipose cell) (Catalioto, R.-M. (1091) 364)

ADP
ATP/ADP translocator; Mitochondrial membrane; Contact site; Freeze-fracture (Bücheler, K. (1056) 233)

Actin polymerization; ATP; Thermodynamics; Calcium ion; Magnesium ion (Kinosian, H.J. (1077) 151)

ADP/ATP translocator
ATP synthesis; ATP synthase, F_1F_0-; Mitochondrion; Lateral diffusion coefficient; Oxidative phosphorylation; Proton transfer (Gupte, S.S. (1069) 131)

ADP compartmentation
Mitochondrial oxidative phosphorylation; Cardiomyocyte; ADP diffusion; Creatine; Creatine kinase system; Energy transport (Saks, V.A. (1074) 302)

ADP diffusion
Mitochondrial oxidative phosphorylation; Cardiomyocyte; ADP compartmentation; Creatine; Creatine kinase system; Energy transport (Saks, V.A. (1074) 302)

cyclic ADP-ribose
Cyclic ion mobilization; Second messenger (Walseth, T.F. (1094) 113)

ADP-ribosylation
Guanine nucleotide; Protein, 20 kDa; Aging; GTP-binding protein; (Rat testis) (Yamashita, A. (1091) 46)

Toxin B; Stress; Cytopathogenicity; (*C. difficile*); (Human fibroblasts) (Florin, I. (1091) 51)

G protein; Diabetes (Palmer, T.M. (1097) 193)

ADP-ribosyltransferase
Guanine nucleotide; De-ADP-ribosylation; (Pig brain cytosol); (*C. botulinum*) (Habermann, B. (1077) 253)

Adrenal medulla
Chromaffin granule; cDNA sequence; Neuroendocrine protein (Bauer, J.W. (1089) 124)

Adrenal microsome
Steroidogenesis; Cytochrome $P\text{-}450_{17\alpha,\text{lyase}}$; Cytochrome $P\text{-}450_{C21}$; Progesterone metabolism (Higuchi, A. (1084) 240)

β-Adrenergic agonist (isoproterenol)
Cystatin; Submandibular gland; Saliva; Diversity (Nishiura, T. (1077) 346)

Adrenergic receptor
G protein; Catecholamine (Lomasney, J.W. (1095) 127)

α_1-Adrenergic receptor
Norepinephrine; Ketogenesis; Oleate metabolism; Glucose release; cyclic AMP; (Rat hepatocyte) (Nomura, T. (1092) 94)

α_2-Adrenoceptor agonist
Clonidine; Epinephrine; Patch clamp; Calcium, intracellular; Cell membrane potential (Weiss, H. (1069) 165)

β_2-Adrenoceptor
Sodium ion/proton antiporter activity, in vivo; Calcium channel; L-type calcium channel; (Rat skeletal muscle) (Syme, P.D. (1093) 234)

Adrenocortical Y1 cell
Staphylococcal α-toxin; Membrane permeabilization; Toxin oligomerisation; Platelet; Liposome; Electron microscopy (Thelestam, M. (1062) 245)

β-Adrenoreceptor
Parotid; GTPase; Adenylyl cyclase; G protein; Signal transduction; Cholera toxin (Hiramatsu, Y. (1092) 391)

Adriamycin
Anthracycline; Drug resistance; Fluorescence; Cytoplasmic concentration (Frezard, F. (1091) 29)

AE1 protein
Anion transport; Band 3 protein; Bicarbonate; Erythrocyte; Nitrate; NMR (Galanter, W.L. (1079) 146)

Affinity chromatography
Thiol reactivity; Cross-linking; Maltoprin variant; Cysteine substitution; Membrane protein; Membrane topology; (*E. coli*) (Francis, G. (1067) 89)

Bound substrate; Stoichiometry; Dihydrofolate reductase (Williams, E.A. (1078) 47)

Chitosanase; Chitosan degradation; (*N. orientalis*) (Sakai, K. (1079) 65)

Proteinase inhibitor; Chromogenic substrate; Metal chelate chromatography (Amarant, T. (1079) 214)

LDL; Ganglioside; Flotation; Fluorescence; (Human) (Mikhailenko, I.A. (1085) 299)

Reaction center protein; Gene cassette; Heterologous expression in *E. coli*; Protein A fusion; (*Rhodobacter sphaeroides*) (Söhlemann, P. (1089) 103)

Affinity constant
Human pancreatic elastase 1; Autoantibody; Radioimmunoassay (Asada, H. (1080) 34)

Affinity labelling
Acetylcholinesterase; Diazonium salt; Butyrylcholinesterase (Ehret-Sabatier, L. (1076) 137)

Protein synthesis; Eukaryotic initiation factor; GTP binding; Sequence analysis (Bommer, U.-A. (1079) 308)

Affinity matrix
Hydrophobic interaction; Endotoxin adsorption (Hou, K.C. (1073) 149)

Affinity phase partitioning
Erythrocyte; Metal chelate; Two-phase system (Goubran Botros, H. (1074) 69)

Affinity purification
N-Acetylglucosaminidase; Inhibition; Nojirimycin; 2-Acetamido; (Bovine) (Legler, G. (1080) 89)

AFGP
DSC; Thermal hysteresis; (Antarctic fish) (Hansen, T.N. (1079) 169)

Age
Glutathione *S*-transferase; Enzyme activity; Enzyme subunit; (Rat liver) (Carrillo, M.-C. (1077) 325)

Incorporation; Desaturation; Microsomal lipid; Lipid; (Blackcurrant seed oil) (Ulmann, L. (1086) 230)

Agglutination
Deformability; Lectin; Concanavalin A; Erythrocyte membrane; (Human erythrocyte) (Pestonjamasp, K.N. (1073) 341)

C-reactive protein; Purification; (Eel) (Nunomura, W. (1076) 191)

Agglutinin
Sperm; Antigen; Membrane antigen; Lectin; Concanavalin A; Wheat germ agglutinin; (Goat) (Sarkar, M. (1070) 198)

Aggregation
Platelet; pH, intracellular; Sodiu ion–proton exchange; Phosphoinositide; Protein kinase C; Diacylglycerol (Luzzatto, G. (1084) 78)

Protein kinase C; Secretion; Protein phosphorylation; cyclic GMP; (Human platelet) (Doni, M.G. (1094) 323)

Aging
Sexual dimorphism; Catalase; Superoxide dismutase; Glutathione reductase; Glutathione peroxidase (Rikans, L.E. (1074) 195)

X-ray diffraction; Collagen (James, V.J. (1078) 19)

Glycation; Collagen; Intervertebral disc; Human (Hormel, S.E. (1078) 243)

Essential fatty acid; Desaturation; Evening primrose oil; (Rat liver microsome) (Biagi, P.L. (1083) 187)

α_1-Acid glycoprotein gene; mRNA; Acute-phase response; Gene regulation (Carter, K.C. (1089) 197)

ADP-ribosylation; Guanine nucleotide; Protein, 20 kDa; GTP-binding protein; (Rat testis) (Yamashita, A. (1091) 46)

Rat thyroxine binding globulin; Rat transthyretin (Savu, L. (1097) 19)

Cytochrome *P*-450; Western blotting; (Rat hepatic microsome) (Imaoka, S. (1097) 187)

Agonist
Adenylate cyclase; Phorbol ester; Desensitization; (Pig epidermis) (Iizuka, H. (1093) 95)

Agonist binding
Platelet; Platelet activation; Ajoene (Apitz-Castro, R. (1094) 269)

AIDS
Chemical crosslinker; CD4 protein; HIV; Drug delivery (Idziorek, T. (1062) 39)

Ajoene
Arg-Gly-Asp tripeptide; Fibronectin; Respiratory burst; (Human neutrophil) (Sud'ina, G.F. (1091) 257)

Agonist binding; Platelet; Platelet activation (Apitz-Castro, R. (1094) 269)

D-Ala^2-enkephalin
Enkephalin; Intramolecular electron transfer; Energy calculation (Vesterman, B. (1079) 39)

[Ala-14]Melittin
Melittin; Dimyristoylphosphatidylcholine; Vesicle to micelle transition; NMR, ^{2}H-; Freeze-fracture; Electron microscopy (Dempsey, C.E. (1061) 175)

Alamethicin analog
Peptaibol; Ion channel; Lipid bilayer; Conductance (Molle, G. (1064) 365)

L-Alanine
Amino acid transport; L-Glutamine; γ-Glutamyltranspeptidase; Acivicin; Exocrine pancreas; (Rat) (Sastre, J. (1065) 213)

Alanine:glyoxylate aminotransferase
Primary hyperoxaluria type 1; Serine:pyruvate aminotransferase; (Dog liver); (Dog kidney) (Danpure, C.J. (1096) 134)

Alanine metabolism
Energy metabolism; Model fitting; Enzyme kinetics; (Liver) (Bohnensack, R. (1073) 347)

Alanyl-AMP analog
5′-*O*-[*N*-(L-Alanyl)sulfamoyl]adenosine; Molecular conformation; X-ray analysis; Crystal structure (Ueda, H. (1080) 126)

α-(β-Alanyl)hypusine
Hypusine; (Bovine brain) (Ueno, S.-i. (1073) 233)

5′-*O*-[*N*-(L-Alanyl)sulfamoyl]adenosine
Alanyl-AMP analog; Molecular conformation; X-ray analysis; Crystal structure (Ueda, H. (1080) 126)

Albumin
Carnitine palmitoyltransferase I; Mitochondrion; Rat; Enzyme kinetics; Acyl-CoA binding to albumin (Richards, E.W. (1076) 23)

Lipoprotein secretion; Apolipoprotein B accumulation; Glucose; Oleic acid (Arrol, S. (1086) 72)

α-Fetoprotein; Polyunsaturated fatty acid; Hepatoma; (Rat fetal hepatocyte) (Iturralde, M. (1086) 81)

Albumin, 2S
Primary structure; Protein spectroscopy; Rapeseed (Monsalve, R.I. (1078) 265)

Alcohol
Phase transition; Lipid vesicle; Anesthesia mechanism; Alkanol (Tamura, K. (1066) 219)

Absorption; Adaptation; Cholesterol; Fatty acid; Galactose; Glucose; Hexose (Thomson, A.B.R. (1084) 122)

Alcohol dehydrogenase
Chimeric protein; Protein translocation; Signal sequence; Signal anchor; Zein (Shatters, Jr., R.G. (1068) 179)

Omega oxidation; Fatty acid oxidation; Lauric acid; Cytochrome *P*-450; Peroxisome; (Rat hepatocyte) (Christensen, E. (1081) 167)

Cytochrome *c*; Structural gene; (*Acetobacter polyoxogenes*) (Tamaki, T. (1088) 292)

Aldehyde
Papain; Binding study; NMR (Hanzlik, R.P. (1073) 33)

Aldehyde dehydrogenase
Inhibition; Cholesta-3,5-dien-7-one; Oxysterol (Ryzlak, M.T. (1079) 203)

Aldehyde dismutaion
Carbonyl reductase; Chloral hydrate; Kinetic mechanism; Chemical modification; (Guinea-pig lung) (Hara, A. (1075) 61)

Aldehyde reductase
Enzyme kinetics; Hammett plot; Transition state; (Human kidney) (Bhatnagar, A. (1077) 180)

NADPH-dependent aldehyde reducing enzyme; Aldose reductase; Aldose reductase inhibitor; (Dog kidney) (Ohta, M. (1078) 395)

Aldolase
NADH binding; Fluorescence spectroscopy and polarization; Phosphorescence at room temperature; (Rabbit muscle) (Sytnik, A.I. (1079) 123)

Aldose reductase
Aldose reductase inhibitor; (Human recombinant enzyme) (Nishimura, C. (1078) 171)

NADPH-dependent aldehyde reducing enzyme; Aldehyde reductase; Aldose reductase inhibitor; (Dog kidney) (Ohta, M. (1078) 395)

Aldose reductase inhibitor
Aldose reductase; (Human recombinant enzyme) (Nishimura, C. (1078) 171)

NADPH-dependent aldehyde reducing enzyme; Aldose reductase; Aldehyde reductase; (Dog kidney) (Ohta, M. (1078) 395)

Aldosterone
Potassium diet; Paracellular pathway; Transcellular pathway; (Rat jejunum) (Capurro, C. (1065) 1)

Amphibian skin; Mitochondria rich cell; Chloride flux (Devuyst, O. (1066) 268)

Alga
Cyanobacterium; Cytochrome *c*; Ferredoxin; Hydrogenase (Krogmann, D.W. (1058) 35)

Alginate
Vanadate; Bromoperoxidase; Mucilage; Poly(ethylene glycol); Partition; Two-phase system; (*Laminaria*) (Jordan, P. (1073) 98)

Alkaline earth
Adenylic acid; Conformational change; FTIR; NMR, ^{1}H-; X-ray diffraction (Tajmir-Riahi, H.-A. (1087) 49)

Alkaline metal ion
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; NMR, ^{23}Na-; (Skeletal muscle) (Timonin, I.M. (1066) 43)

Alkaline phosphatase
Glycosylphosphatidylinositol-specific phospholipase D; Alkaline phosphatase isoform (Raymond, F. (1074) 217)

p-Nitrophenyl phosphate; Osseous matrix; Hydrophobic chromatography; Divalent ion; (Rat) (Say, J.C. (1074) 256)

Phytase; (Intestine) (Yang, W.-J. (1075) 75)

Human neutrophil; Uric acid; Kinetic parameter (Vergnes, H.A. (1076) 152)

Bone; Phosphotransferase activity; Kinetic mechanism (Mueller, K. (1076) 308)

Isozyme analysis; Sugar chain, N-linked; Sugar chain, O-linked; Immunohistochemical localization; (Human tissue); (Rabbit tissue) (Koyama, I. (1080) 165)

mRNA; cDNA; 1,25-Dihydroxyvitamin D-3; (Rat intestine) (Strom, M. (1090) 299)

Gastric secretion; Cholecystokinin; Bethanecol; (Rat intestine) (Eliakim, R. (1091) 1)

Acid phosphatase; Synthetic peptide; Substrate specificity; Enzymology; Peptide dephosphorylation (Donella-Deana, A. (1094) 130)

Alkaline phosphatase isoform
Alkaline phosphatase; Glycosylphosphatidylinositol-specific phospholipase D (Raymond, F. (1074) 217)

Alkane
Pristane; Dioleoylphosphatidylcholine; Liposome; Plasmacytomagenesis; NMR; DSC (Gawrisch, K. (1070) 409)

Alkanol
Phase transition; Lipid vesicle; Anesthesia mechanism; Alcohol (Tamura, K. (1066) 219)

Long-chain alcohol; Phase transition; Phospholipid vesicle; Anesthesia cut-off; Lipid bilayer membrane (Suezaki, Y. (1066) 225)

***n*-Alkanol**
ATPase, Ca^{2+}-; Spin label; Lipid/protein interface (Lopes, C.M.B. (1070) 467)

Alkylacylglycerol
Human neutrophil; PAF; Phospholipase A_2; 5-Lipoxygenase; Acetyltransferase (Bauldry, S.A. (1084) 178)

Alkylating agent
Chlorambucil; Histone variant; Histone synthesis; S-phase; Hydroxyurea; DNA synthesis (Sourlingas, T.G. (1092) 298)

Alkyldihydroxyacetone-phosphate synthase
Peroxisomal enzyme; Localization; Acyldihydroxyacetone; TLC; (Rat liver) (Hardeman, D. (1081) 285)

Alkylglycerol
Lymphocyte; Stimulated lymphocyte; Nuclear lipid; Leukemic lymphocyte; Squalene (Aliau, S. (1085) 350)

Alkyl phospholipid
Arachidonic acid metabolism; CoA-independent transacylase; Phospholipase A_2; U937 cell (Winkler, J.D. (1081) 339)

Allene oxide, hydrolysis mechanism
Hydroperoxide dehydrase; α-Linolenic acid 13-hydroperoxide; 11-Hydroxy-12-oxo-9(*Z*),15(*Z*)-octadecadienoic acid, novel ketol; (Flax seed) (Grechkin, A.N. (1086) 317)

Allergy
Arachidonic acid metabolism; Leukotriene B_4 synthesis; Calcium ionophore A23187; Human neutrophil; Ether-linked glycerophospholipid (Chabannes, B. (1093) 47)

Alpha subunit
G protein; Signal transduction; Expression; Development; (Mammalian cell and tissue) (Garibay, J.L.R. (1094) 193)

Alternative oxidase
Cyanide-insensitive respiration; NADH dehydrogenase; Q-pool; Regulation; Respiratory chain; (Plant mitochondria) (Moore, A.L. (1059) 121)

Cyanide-resistant respiration; cDNA; Nucleotide sequence; Mitochondrion; (*Hansenula anomala*) (Sakajo, S. (1090) 102)

Alternative splicing
Protein phosphatase; cDNA sequence; Amino acid sequence; Isoform; (Human) (McPartlin, A.E. (1088) 308)

Aluminum
Sodium ion efflux; GTP; Gpp[NH]p; 5′-Guanylyl imidodiphosphate; (Barnacle muscle) (Huang, Y.-P. (1062) 255)

Gallium; Hemodialysis; (Lymphocyte) (McGregor, S.J. (1095) 196)

Aluminum fluoride
Bromoperoxidase; Reactivation; Beryllium fluoride; Pyrophosphate; (*A. nodosum*) (Tromp, M. (1079) 53)

Alveolar epithelium
Hexose transport; Sodium/phosphate cotransport; Sodium ion/alanine cotransport; Lung cell culture; (Rat) (Clerici, C. (1063) 27)

Non-selective cation channel; Amiloride; Ion channel; Sodium channel (Orser, B.A. (1094) 19)

Alveolar type II cell
PAF; Cytochrome *P*-450; Xenobiotic metabolism; Pneumocyte (Rabovsky, J. (1095) 223)

Lamellar body; Lung surfactant; Lysozyme; Oxidative injury; Ozone (Shelley, S.A. (1096) 338)

Alzheimer's disease
Neurofibrillary tangle; Paired helical filament; Neuritic plaque; β-Amyloid (Crowther, R.A. (1096) 1)

Posttranslational modification; Tubulin-binding protein (Nieto, A. (1096) 197)

Amantadine
Nucleotide transport; Periodic-catastrophic transport; Catastrophic transport; AMP; Phosphoramidate (Bergstrom, D.E. (1061) 95)

Amicyanin
Blue copper protein; EXAFS analysis; *(T. versutus)* (Lommen, A. (1076) 439)

Amidase gene
Cloning; Gene expression; (*Rhodococcus*); (*E. coli*) (Hashimoto, Y. (1088) 225)

Amide
Erythrocyte membrane; Permeability; Water; Urea; Reflection coefficient (Toon, M.R. (1063) 179)

Amiloride
Potassium channel; Cation channel; Reconstitution; Protein purification; Proteolipid; (Rabbit kidney) (Desir, G.V. (1067) 38)

Impedance analysis; Sodium ion transport; Anion; (Toad urinary bladder) (Lewis, S.A. (1070) 99)

Non-selective cation channel; Alveolar epithelium; Ion channel; Sodium channel (Orser, B.A. (1094) 19)

Amiloride sensitivity
Sodium ion channel; Divalent cation; pH effect; Membrane vesicle; (Pars rectum); (Rabbit proximal tubule) (Blokkebak-Poulsen, J. (1068) 125)

Amine inhibition
ATPase, Na^+/K^+-; AU-1421; Phosphoenzyme; Potassium binding site; Site-directed probe; (Sheep kidney) (Takada, J. (1065) 153)

Amino acid
ELF electric field; Neurotransmitter; Striatum (Zecca, L. (1075) 1)

ATPase, Ca^{2+}-; Freeze-thaw; Membrane protein; Denaturation (Lalonde, R.J. (1079) 128)

Dexamethasone; Cell membrane; Trauma (Hundal, H.S. (1092) 376)

Red cell; Genetic obesity (Serra, F. (1097) 289)

Amino acid composition
Bile acid binding protein; Rat ileal cytosol; Photoaffinity labeling; Immunoblotting; Amino acid sequence (Lin, M.C. (1078) 329)

Amino acid homology
Melanoma antigen; Systemic lupus erythematosus; (Human) (Gersten, D.M. (1096) 20)

Amino acid modification
Glyceralde-3-phosphate dehydrogenase; Enzyme conformation; Active site; Arginine modification; Thiol group; (Rabbit muscle) (Kuzminskaya, E.V. (1075) 123)

L-Amino acid oxidase
β-*N*-Methylaminoalanine; β-*N*-Methylaminopyruvate; *N*-Methylglycine; Neurotoxic amino acid (Hashmi, M. (1074) 36)

Amino acid sequence
Cytochrome *c*; Oxidoreductase reactivity; (*N. winogradskyi*); (*T. novellus*) (Yamanaka, T. (1058) 48)

Photosynthesis; Photosystem I; Gene characterization; (Cucumber cotyledons) (Iwasaki, Y. (1059) 141)

Glucose transporter; Erythrocyte; Ubiquinone; Ubiquinone binding site (Lowe, A.G. (1069) 223)

Glycerol dehydrogenase; Metalloenzyme; Cysteine (Spencer, P. (1073) 386)

7-Methylguanine; Cooperative interaction; Spectroscopic study; mRNA cap structure; Cap binding protein (IF-4E) (Ueda, H. (1075) 181)

Proteinase inhibitor; Protein precursor; Posttranslational modification; (Bovine spleen) (Barra, D. (1076) 143)

Hemoglobin; (Reindeer) (Petruzzelli, R. (1076) 221)

β-Lactoglobulin; Primary sequence; Lipocalin; (Cat); (Horse) (Halliday, J.A. (1077) 25)

Textilotoxin; Subunit D; Neurotoxin; (*P. textilis*) (Pearson, J.A. (1077) 147)

Green photosynthetic bacterium; Light harvesting complex (Højrup, P. (1077) 220)

Prolactin; Glycosylation site; Secondary structure; (Dromedary) (Martinat, N. (1077) 339)

Phospholipase A_2; Edema induction; Snake venom protein (Liu, C.-S. (1077) 362)

Globin; (*C. (Molpadia) arenicola*) (Mauri, F. (1078) 63)

Bile acid binding protein; Rat ileal cytosol; Photoaffinity labeling; Immunoblotting; Amino acid composition (Lin, M.C. (1078) 329)

Growth hormone; (*R. catesbeiana*) (Kobayashi, T. (1078) 383)

DNA repair enzyme; Exonuclease; Apurinic/apyrimidinic endonuclease; DNA phosphatase; Priming enzyme (Seki, S. (1079) 57)

Chymotrypsin; Kinetic specificity; Collagenolysis; Kinetic salt effect; (Shrimp) (Tsai, I.-H. (1080) 59)

Amylase; Secretion signal; (Mouse); (*S. cerevisiae*) (Tokunaga, M. (1080) 135)

Superoxide dismutase; Manganese enzyme; cDNA cloning; Gene expression; (Human) (Church, S.L. (1087) 250)

Protein phosphatase; cDNA sequence; Isoform; Alternative splicing; (Human) (McPartlin, A.E. (1088) 308)

Prothymosin α; Thymosin α_1; Nucleotide sequence; Secondary structure (Schmidt, G. (1088) 442)

Glutamate dehydrogenase; Olivoponto-cerebellar atrophy; cDNA cloning; Signal peptide; Gene expression; (Mouse) (Tzimagiorgis, G. (1089) 250)

cDNA; ATPase, F_1-; ATP synthase; (Human) (Kataoka, H. (1089) 393)

Flavodoxin; Structural gene sequence; (*Desulfovibrio desulfuricans*) (Helms, L.R. (1089) 417)

γ-Crystallin; Gene structure; (*C. carpio*) (Chang, T. (1090) 261)

Acrosin; Serine proteinase; Catalytic triad; Phylogenetic tree (Klemm, U. (1090) 270)

Light chain deposition disease; Immunoglobulin (Bellotti, V. (1097) 177)

Amino acid sequence, partial
Immunoaffinity chromatography; Catechol-*O*-methyltransferase; (Pig liver) (Bertocci, B. (1080) 103)

Amino acid starvation
Codon usage; Mistranslation; Protein synthesis (Ulrich, A.K. (1089) 362)

Amino acid transport
Hyperglycemia; Brush-border membrane vesicle; (Guinea-pig small intestine) (Satoh, O. (1063) 155)

L-Alanine; L-Glutamine; γ-Glutamyltranspeptidase; Acivicin; Exocrine pancreas; (Rat) (Sastre, J. (1065) 213)

Preimplantation blastocyst; Membrane transport; Anionic amino acid (acidic amino acid) (Van Winkle, L.J. (1068) 231)

Cationic amino acid transport; Macrophage; Lipopolysaccharide (Sato, H. (1069) 46)

Cation effect; Harmaline effect; System y^+; (Human erythrocyte); (Hagfish erythrocyte) (Young, J.D. (1070) 111)

Exocrine pancreas; L-Phenylalaline; Protein synthesis; Carbachol; (Rat) (Sweiry, J.H. (1070) 135)

Plasma membrane; Threonine; (Human fibroblast) (Bussolati, O. (1070) 305)

Aminoacylase
Renal dipeptidase; Ectoenzyme; Glycolipid anchor; Glycosylphosphatidylinositol; (Pig kidney) (Greenhough, K.J. (1076) 364)

Aminoacylation
Translational control; tRNA; Estrogen regulation; Ribosome (Whelly, S.M. (1092) 218)

Aminoacyl-tRNA synthetase
Enzyme inactivation; Proteolytic inactivation; Proteinase; (*S. cerevisiae*) (Larrinoa, I.F. (1073) 502)

Aminoacyl-tRNA synthetase complex
Glutaminyl-tRNA synthetase; Immunoprecipitation; (Human) (Schray, B. (1087) 226)

α-Aminoadipate
Glutamate receptor; Glutathione; Feeding response; Kainate; (*Hydra*) (Bellis, S.L. (1061) 89)

4-Aminobutyrate aminotransferase
Catalytic activity; Lysine residue (Kim, Y.T. (1077) 187)

1-Aminocyclopropane-1-carboxylic acid
Ethylene; Ethylene forming enzyme; Free radical; Hydroperoxide; Peroxidase; Manganese (Acosta, M. (1077) 273)

Amino group
Polymorphonuclear leukocyte; SH group; Luminol; Hypochlorous acid; (Human plasma) (Arnhold, J. (1097) 145)

ε-Aminohexanoic acid
Tissue-type plasminogen activator; Fibrinogen (Urano, T. (1077) 245)

δ-Aminolevulinate synthase
Heme oxygenase; Glutethimide; Iron (Cable, E.E. (1080) 245)

Heme synthesis; Erythroleukemia cell; Heme oxygenase; Sequential activation (Fujita, H. (1090) 311)

δ-Aminolevulinic acid
Porphyria, acute intermittent; Lead poisoning; Reactive oxygen species; Oxygen; Mitochondrial damage; (Rat liver mitochondria) (Hermes-Lima, M. (1056) 57)

α-Aminomyristic acid
Amphipathic α-helical peptide; Lipid–peptide interaction; Tryptophan fluorescence; Liposome; Circular dichroism (Kato, T. (1063) 191)

Aminopeptidase
Biotinidase; Exo-peptidase; Opioid neuropeptide (Oizumi, J. (1074) 433)

Aminophylline
Intracellular cyclic AMP; Phospholipid; Phosphodiesterase; Lipid synthesis; (*M. gypseum*) (Bindra, A. (1081) 61)

Amino terminal extension
Malaria; Erythrocyte; Band 3 protein; Phosphorylation (Jones, G.L. (1096) 33)

Amino-terminus
ATPase, Na^+/K^+-; Lysine cluster; Deletion mutant; (*R. catesbiana*) (Ohta, T. (1059) 157)

Phosphorylase *b'*; Serine phosphate site; Ammonium sulfate activation (Leonidas, D.D. (1076) 305)

Aminotriazole
Cholesterol; 4α-Methyl-5α-cholest-7-en-3β-ol; 4,4-Dimethyl-5α-cholest-8-en-3β-ol; Intermediate; Peroxisome (Hashimoto, F. (1086) 115)

Ammonium ion
Chronic renal failure; Plasma; Urine; NMR; Betaine; Trimethylamine *N*-oxide; Lactate (Bell, J.D. (1096) 101)

Ammonium sulfate activation
Phosphorylase *b'*; Amino-terminus; Serine phosphate site (Leonidas, D.D. (1076) 305)

AMP
Nucleotide transport; Periodic-catastrophic transport; Catastrophic transport; Amantadine; Phosphoramidate (Bergstrom, D.E. (1061) 95)

cyclic AMP
Water permeation; Water diffusion; Antipyrine; ADH; Benzyl alcohol; (MDCK cell) (Giocondi, M.-C. (1064) 315)

Prostaglandin $F_{2\alpha}$; Parathyroid hormone; Protein kinase C; Osteoblastic cell, $MC3T3E_1$; (Mouse) (Wada, S. (1074) 182)

CDC25 gene; G-protein; Cell cycle; Growth control (Frascotti, G. (1089) 206)

Norepinephrine; α_1-Adrenergic receptor; Ketogenesis; Oleate metabolism; Glucose release; (Rat hepatocyte) (Nomura, T. (1092) 94)

pH, intracellular; Chloride–bicarbonate exchange; ($LLC\text{-}PK_1$ cell) (Harada, H. (1092) 404)

Epinephrine; Protein kinase C; Cytosolic calcium; Calcium, cytosolic; (Human platelet) (Zoccarato, F. (1092) 72)

T cell receptor; Protein kinase C; Receptor cross-talk (Kvanta, A. (1093) 178)

Protein phosphorylation; Steroidogenesis; hCG; PMA; (Leydig cell) (Chaudhary, L.R. (1094) 175)

Protein kinase; Glycogen metabolism; Fatty acid synthesis; Cholesterol synthesis (Cohen, P. (1094) 292)

Plasminogen activator inhibitor (type 1); Protein kinase C; Endothelial cell (Slivka, S.R. (1094) 317)

Chemotaxis; Neutrophil; Heparin cofactor; Actin polymerization (Hoffman, M. (1095) 78)

PAF synthesis; Endothelium; Thrombin; Calcium; Protein kinase C (Heller, R. (1093) 55)

cyclic AMP binding
Adenylate cyclase activation; Dithiothreitol; Polyamine; Calcium ion; EDTA; (*D. discoideum*) (Oyama, M. (1092) 85)

cyclic AMP-binding protein
Polymorphism; Cellular slime mold (Bonfils, C. (1088) 145)

Annexin; Calcium/phospholipid binding protein; (*Dictyostelium*) (Greenwood, M. (1088) 429)

cyclic AMP-dependent protein kinase
Myoblast; Cα catalytic subunit; cDNA; (Rat) (Wiemann, S. (1089) 254)

C5a receptor; Protein kinase C; 1,25-Dihydroxyvitamin D-3; Prostaglandin E_2 (Rubin, J.E. (1091) 87)

cyclic AMP synthesis
Cholera toxin; Arachidonic acid metabolism; Prostaglandin synthesis; Protein synthesis; (Mouse Chinese hamster ovary cell) (Peterson, J.W. (1092) 79)

5′-AMP bis(α-aminoacyl) esters
Stereoselective; Peptide synthesis (Lacey, J.C. (1076) 395)

AMP-deaminase
Enzyme characterization; Enzyme activity regulation; (Human uterine smooth muscle) (Nagel-Starczynowska, G. (1073) 470)

Diabetes mellitus; Heart (Jenkins, R.L. (1077) 379)

Enzyme characterization; Enzyme activity regulation; (Human uterine smooth muscle) (Nowak, G. (1078) 303)

Amphibian skin
Aldosterone; Mitochondria rich cell; Chloride flux (Devuyst, O. (1066) 268)

Amphipathic α-helical peptide
Lipid–peptide interaction; Tryptophan fluorescence; Liposome; α-Aminomyristic acid; Circular dichroism (Kato, T. (1063) 191)

Amphipathic protein
Lipid storage body; Oleosin; Apolipoprotein (Murphy, D.J. (1088) 86)

Amphipathic structure
Platelet-type von Willebrand disease; Platelet aggregation; Peptide segment; GPIbα protein; Von Willebrand factor; Conformational energy (Pincus, M.R. (1097) 133)

Amphiphile
Plasmalogen; Phospholipid; Molecular dynamics (Han. X. (1069) 37)

Amphiphilic surface
Oligosaccharide; Chain conformation; Hydrophobic bonding; Lectin-sugar binding; Antigen–antibody interaction; Cell surface oligosaccharide (Sundari, C.S. (1065) 35)

Amphotericin B
Liposome; Phase behavior (Hamilton, K.S. (1062) 220)

Pyranine; Ion current; Drug delivery; Liposome (Peterson, R.P. (1064) 165)

Cornea; Epithelium; Conductance; Capacitance; Impedance analysis; Cell coupling (Reinach, P.S. (1066) 115)

Membrane potential; Microelectrode technique; Potassium ion conductance; (*R. catesbeiana* cornea) (Carrasquer, G. (1069) 181)

Amplicon
Gene amplification model; Inverted duplication; Amplified oncogene (Fried, M. (1090) 143)

Amplified oncogene
Gene amplification model; Inverted duplication; Amplicon (Fried, M. (1090) 143)

Amplitude
LHRH; Duration; LH; FSH; Cell culture; Pituitary (Kellom, T.A. (1092) 101)

Amsacrine
Topoisomerase II-DNA complex formation enhancing factor; Casein kinase II; Nucleus; (Murine mastocytoma cell) (Darkin-Rattray, S.J. (1088) 285)

Amylase
Amino acid sequence; Secretion signal; (Mouse); (*S. cerevisiae*) (Tokunaga, M. (1080) 135)

α-Amylase
Transglycosylation; Maltooligosaccharide; Site-directed mutagenesis; Subsite; (*Saccharomycopsis*) (Matsui, I. (1077) 416)

Limited proteolysis; Antibody; X-ray crystallography; (Porcine pancreas) (Desseaux, V. (1080) 237)

Amylase release
Parotid cell; L-Arginine; L-Ornithine (Blachier, F. (1091) 151)

Amylase secretion
Permeability; Calcium ion effect; (Mouse pancreatic acinar cell) (Kitagawa, M. (1073) 129)

Cholecystokinin internalization; Biotin-streptavidin technology; Inositol phosphate; Pancreatic acini; (Rat) (Winand, J. (1080) 181)

Amylin
Islet amyloid polypeptide; IAPP gene; Type 2 diabetes mellitus; Diabetes mellitus; Gene structure; (Rat); (Human) (Van Mansfeld, A.D.M. (1087) 235)

β-Amyloid
Alzheimer's disease; Neurofibrillary tangle; Paired helical filament; Neuritic plaque (Crowther, R.A. (1096) 1)

Amyloidosis
Transthyretin; Basic variant; Polymorphism; Peptide mapping; Plasma protein (Almeida, M.R. (1097) 224)

Amyloid protein
Gelsolin; Point mutation; Familial amyloid polyneuropathy type IV (Maury, C.P.J. (1096) 84)

Anaerobic state
Propionate; Carboxylation; NMR, ^{13}C-; Succinate pathway; Methylmalonyl-CoA; Propionyl-CoA : oxaloacetate transcarboxylase (Houwen, F.P. (1056) 126)

Analog
Lung surfactant; Phospholipid; Glycerophospholipid; Diether phosphonolipid; Synthesis; Preparative HPLC; Surface activity; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

Androgen receptor
Synthetic peptide; Antibody; MAb performance; Immunohistochemistry; Diagnostic; (Human) (Zegers, N.D. (1073) 23)

Antiandrogen; Prostate; Cycloheximide (Steinsapir, J. (1094) 103)

Androstenediol
Steroid hormone; Lipoprotein; HDL; Dehydroepiandrosterone; Dihydrotesterone; Estradiol; Pregnenolone; Progesterone (Leszczynski, D.E. (1083) 18)

Anesthesia cut-off
Long-chain alcohol; Alkanol; Phase transition; Phospholipid vesicle; Lipid bilayer membrane (Suezaki, Y. (1066) 225)

Anesthesia mechanism
Phase transition; Lipid vesicle; Alkanol; Alcohol (Tamura, K. (1066) 219)

Anesthetic
Lipid bilayer; Phase transition; Phase diagram; Molecular interaction; Drug; Density fluctuation; Interface (Jørgensen, K. (1062) 227)

Lipid bilayer; Phase transition; Drug; Insecticide; Density fluctuation; Interface (Jørgensen, K. (1067) 241)

Angiogenic factor
Collagenase; Metalloproteinase inhibitor; Tissue inhibitor (McLaughlin, B. (1073) 295)

Angiotensin II
Pentafluorophenylalanine; Conformation by NMR; Receptor mechanism (Bovy, P.R. (1079) 23)

Angiotension II analog
Fluorescence; Membrane receptor; Long lifetime tyrosinate fluorescence (LTF) (Turner, R.J. (1065) 21)

1-Anilinonaphthalene-8-sulfonic acid
Fluorometry; Nucleotide binding; Enzyme regulation; Rubisco activase (Wang, Z.-Y. (1079) 263)

Anion
Impedance analysis; Sodium ion transport; Amiloride; (Toad urinary bladder) (Lewis, S.A. (1070) 99)

Thiamine triphosphatase; Thiamine triphosphate; Detergent solubilization; (*E. electricus*) (Bettendorff, L. (1073) 69)

Anion binding
Sarcoplasmic reticulum; NMR, ^{35}Cl-; Vanadate; Pyridoxalphosphate-6-azophenyl-2′-sulfonic acid; Pyridoxalphosphate-6-azophenyl-4′-nitro-2′-sulfonic acid (Vetter, I.R. (1067) 9)

Transferrin; cDNA sequence; Protein evolution (Banfield, D.K. (1089) 262)

Anion exchange
Sulfate transport; (Human placenta) (Cole, D.E.C. (1064) 287)

α-L-Fucose; Phorbol ester; Lectin (Engelmann, B. (1091) 261)

Human keratinocyte; Chloride transport; Chloride ion channel; Lipoxygenase (Mastrocola, T. (1097) 275)

Anionic amino acid (acidic amino acid)
Preimplantation blastocyst; Membrane transport; Amino acid transport (Van Winkle, L.J. (1068) 231)

Anionic detergent
Plasminogen activator inhibitor; Tissue-type plasminogen activator (Gaussem, P. (1079) 321)

Anionic phospholipid
Phospholipid; Membrane asymmetry; Surface potential; Yeast (Cerbón, J. (1067) 139)

Anion transport
Mitochondrion; *N*-Ethylmaleimide; Mercurial; Thiol (Beavis, A.D. (1063) 111)

Erythrocyte; Phenylhydrazine; Oxygen radical (Petty, H.R. (1064) 308)

AE1 protein; Band 3 protein; Bicarbonate; Erythrocyte; Nitrate; NMR (Galanter, W.L. (1079) 146)

Anisotropy
Capsaicin; Plasma membrane fluidity; Fluorescence polarization; Platelet aggregation (Meddings, J.B. (1070) 43)

Annexin
Membrane fusion; Neutrophil; Membrane; Phospholipid vesicle (Oshry, L. (1066) 239)

Calcium/phospholipid binding protein; cyclic AMP-binding protein; (*Dictyostelium*) (Greenwood, M. (1088) 429)

Anoxia
Protein kinase; Pyruvate kinase phosphorylation; Metabolic rate depression; Enzyme regulation (Brooks, S.P.J. (1073) 253)

Antarctica
Hemoglobin; Cold-adapted teleost; Primary structure; Oxygen binding (Caruso, C. (1078) 273)

Antarctic bacterium
Lipase; Psychrotrophic bacterium; DNA sequence (Feller, G. (1088) 323)

Antenna
Photosynthetic unit; Photosystem; Reaction center; Optical cross-section; Chlorophyll; (*Chlorella*) (Greenbaum, N.L. (1057) 195)

Bacterial photosynthesis; Bacteriochlorophyll; Chlorosome; Pump-probe spectroscopy; Ultrafast spectroscopy; (*C. aurantiacus*) (Lin, S. (1060) 13)

Antenna complex
Reaction center; Cytochrome subunit; Detergent solubilization; (*Ectothiorhodospira mobilis, halophila, shaposhnikovii*) (Leguijt, T. (1057) 353)

Stark effect; Electric field effect; Light harvesting complex; Energy transfer (Gottfried, D.S. (1059) 63)

Energy transfer; Pigment organization; Photosynthetic bacterium; (*Chloroflexus aurantiacus*) (Griebenow, K. (1059) 226)

Excitation annihilation; Fluorescence yield; Bacteriochlorophyll; (*Rps. acidophila*) (Deinum, G. (1060) 125)

Antenna model
Excitation energy transfer; Photosystem II; Fluorescence emission; Light-harvesting chlorophyll *a*/*b* protein complex II; (Spinach and barley thylakoids) (Jennings, R.C. (1060) 245)

Antenna size
Thylakoid membrane; Photosystem I; Phase partition; (Sonication); (Spinach chloroplast) (Svensson, P. (1060) 45)

Anthracycline
Adriamycin; Drug resistance; Fluorescence; Cytoplasmic concentration (Frezard, F. (1091) 29)

Anthranilate synthase I
trpE; Molecular cloning; Nucleotide sequence; (*Bacillus caldotenax*) (Shiratsuchi, A. (1090) 348)

Anthranilic acid derivative
Chloride transport; (Indanyloxy)acetic acid derivative; Membrane vesicle; Channel blocker; (Bovine kidney cortex); (Rabbit ileum brush border) (Pope, A.J. (1067) 51)

Anthraquinone
Dantrolene; Excitation–contraction coupling; Ryanodine binding; Calcium release channel; Cardiotoxicity (Tian, Q. (1094) 27)

Anthroyloxy fatty acid
Membrane structural dynamics; Membrane rigidity; Lipid structural order; Flow cytometry (Collins, J.M. (1067) 171)

Antiandrogen
Androgen receptor; Prostate; Cycloheximide (Steinsapir, J. (1094) 103)

Antiarrhythmic drug
Hepatic uptake; Hepatic circulation; (Perfused rat liver) (Lenzen, R. (1074) 406)

Antibacterial activity
Synthetic peptide; Peptide, basic; Ion channel; Planar bilayer (Anzai, K. (1064) 256)

Antibiotic
Polyene; Selectivity; Permeability; Channel; Ionophore (Bonilla-Marín, M. (1061) 65)

Antibiotic binding
Kirromycin; EPR; Elongation factor Tu; (*B. stearothermophilus*) (Kalbitzer, H.R. (1078) 133)

Antibody
cyclic GMP; Antiidiotypic antibody; Polyclonal antibody (Filatova, E.A. (1064) 293)

Carboxyacyl derivative; Cardiolipin; Liposome; Proteoliposome; Covalent coupling; Chymotrypsin (Niedermann, G. (1070) 401)

Androgen receptor; Synthetic peptide; MAb performance; Immunohistochemistry; Diagnostic; (Human) (Zegers, N.D. (1073) 23)

α-Amylase; Limited proteolysis; X-ray crystallography; (Porcine pancreas) (Desseaux, V. (1080) 237)

Tumor necrosis factor; Hybrid protein; (Mouse myeloma cell) (Hoogenboom, H.R. (1096) 345)

Antibody binding
DNA modification; Carbodiimide; Enzyme immunoassay; Non-isotopic DNA detection; Synthetic oligomer (Wani, A.A. (1088) 259)

Ultraviolet radiation; Pyrimidine dimer; Enzyme immunoassay; Plasmid vector; Specific gene fragment; DNA blot; Bacterial mutant; DNA damage; Excision repair (Wani, A.A. (1090) 195)

Antibody to polyphosphoinositide
Phosphoinositide; Phosphatidic acid; Phospholipase A_2; Erythrocyte membrane (Gascard, P. (1069) 27)

Anti-DNA antibody
DNA adduct; DNA-psoralen; Psoralen; DNA crosslink; anti-DNA-psoralen antibody (Hasan, R. (1073) 509)

Antiestrogen
Antiestrogen-binding site; Oxygenated sterol; Ligand specificity (Lin, L. (1082) 177)

Antiestrogen-binding site
Antiestrogen; Oxygenated sterol; Ligand specificity (Lin, L. (1082) 177)

Antifreeze protein
Cold tolerance; Insect antifreeze; Thermal hysteresis protein (Wu, D.W. (1076) 416)

Antifungal agent
Microsomal chitinase; Zymogen; Enzyme kinetics; (*C. albicans*) (Dickinson, K. (1073) 177)

Antigen
Sperm; Membrane antigen; Lectin; Concanavalin A; Wheat germ agglutinin; Agglutinin; (Goat) (Sarkar, M. (1070) 198)

Arachidonic acid metabolism; Ionophore A23187; Immunological challenge; GC-MS; (Mast cell) (Nakamura, T. (1085) 191)

Cardiac sarcolemma; Calcium ion binding; Glycoprotein; Dihydropyridine receptor (Tuana, B.S. (1091) 236)

Antigen–antibody interaction
Oligosaccharide; Chain conformation; Amphiphilic surface; Hydrophobic bonding; Lectin-sugar binding; Cell surface oligosaccharide (Sundari, C.S. (1065) 35)

β-Casein; ELISA; Monoclonal antibody; Peptide–protein interaction; Proteolysis (Kobayashi, T. (1077) 11)

Antigen, 65 kDa
Molecular chaperone; Autoimmunity; GroEL related protein; (Chinese hamster ovary) (Ahmad, S. (1087) 253)

Antiidiotypic antibody
cyclic GMP; Antibody; Polyclonal antibody (Filatova, E.A. (1064) 293)

Anti-inflammatory
Prostaglandin; Dexamethasone; Membrane fluidity; (Rabbit cardiac muscle) (Gerritsen, M.E. (1065) 63)

Antimalaria
Chloroquine; Ferriprotoporphyrin IX; Lipid peroxidation (Sugioka, Y. (1074) 19)

Antioxidant
Hypotaurine; Taurine; Radical scavenger; Neurophil activation; (Human neutrophil) (Green, T.R. (1073) 91)

Lipoprotein (a); Polyunsaturated fatty acid; Lipid peroxidation; Neuraminidase-treated lipoprotein (a) (Sattler, W. (1081) 65)

Lipoprotein; β-Carotene; Atherosclerosis; (Human macrophage) (Jialal, I. (1086) 134)

Glycated polylysine-iron complex; LDL; Lipid peroxidation; Endocytosis; Macrophage (Sakurai, T. (1086) 273)

LDL; Lipid peroxidation; Cytotoxicity; Cytoprotection; Ultraviolet irradiation; (Human lymphoblast) (Negre-Salvayre, A. (1096) 291)

Antipeptide antibody
Glutathione transferase; Tumor marker (Evangelista, M. (1074) 214)

Antiplatelet aggregation
Snake venom peptide; Arg-Gly-Asp-containing; Fibrinogen binding (Huang, T.-F. (1074) 136)

Antiplatelet effect
Platelet aggregation; Fibrinogenase; Venom; (Snake); (*Naja nigricollis*) (Kini, R.M. (1095) 117)

Antiplatelet peptide
Fibrinogen receptor antagonist; Interaction; Glycoprotein IIb-IIIa complex (Huang, T.-F. (1074) 144)

Antiprogesterone
Progesterone receptor; (Chicken oviduct) (Moudgil, V.K. (1094) 185)

Antipyrine
Water permeation; Water diffusion; ADH; cyclic AMP; Benzyl alcohol; (MDCK cell) (Giocondi, M.-C. (1064) 315)

Antisteroid
Steroid hormone; Glucocorticoid receptor; Receptor binding; (Rat liver) (Zakula, Z. (1092) 188)

Antithrombin
Thrombin; Thermodynamic nonideality (Hogg, P.J. (1073) 609)

Antitumor activity
n-Bromoalkylphenanthridinium bromide; DNA binding; DNA alkylation (Wickham, G. (1073) 528)

Antitumor agent
Thermotropic behavior; Phospholipid vesicle; α-Sarcin (Gasset, M. (1068) 9)

Anti-tumor drug
Drug resistance; (Human melanoma) (Schallreuter, K.U. (1096) 277)

Antitumor protein
α-Sarcin; Protein–lipid interaction; Protein spectroscopy (Gasset, M. (1080) 51)

Aorta
Hepoxilin A_3 conjugate; Glutathione *S*-transferase; γ-Glutamyltranspeptidase; Contraction; Hypertension; (Blood vessel); (Rat) (Laneuville, O. (1084) 60)

Endothelin; Receptor; Kidney; Heart; Cross-linking; (Bovine) (Bednar, D.L. (1092) 226)

Apical membrane
Phosphatidylcholine transfer protein; Basolateral membrane; Dipalmitoylphosphatidylcholine; (MDCK cell) (Zlatkine, P. (1065) 225)

Apo B
Rhesus monkey; VLDL; LDL; Kinetics; Saturated fat (Khosla, P. (1083) 46)

Apo E isoform
Apolipoprotein E; Apolipoprotein A-II; HDL; VLDL; Lipoprotein metabolism (Borghini, I. (1083) 139)

Apolipoprotein
Lipid transfer protein; Cholesteryl ester transfer protein; Pyrene cholesteryl ester; Fluorescence; (Human plasma) (Milner, T.G. (1082) 71)

Lecithin-cholesterol acyltransferase; Cross-linking; Cholesterol; Cholesteryl ester; Gradient gel electrophoresis (Bonomo, E.A. (1082) 265)

Hypercholesterolemia; Hypertriglyceridemia; Cholesterol-feeding (Quig, D.W. (1083) 257)

Gene expression; Hyperlipidemia; Atherosclerosis; LDL receptor; Hypolipidemic drug; Probucol (Staels, B. (1085) 131)

Lipoprotein turnover; Lipid metabolism; Lipophorin; Diacylglycerol; Insect flight; (Insect) (Surholt, B. (1086) 15)

Amphipathic protein; Lipid storage body; Oleosin (Murphy, D.J. (1088) 86)

Apolipoprotein A-I
HDL; Diet; Saturated fat; (Rabbit) (Carlson, T.L. (1083) 221)

HDL; Reverse cholesterol transport; Cholesterol transport; Apolipoprotein A-II; (Mouse macrophage) (Von Hodenberg, E. (1086) 173)

Apolipoprotein A-I binding protein; Apolipoprotein J; Serum protein 40,40; (Human) (Ehnholm, C. (1086) 255)

Solution hybridization assay; LDL receptor; Apolipoprotein B; Apolipoprotein A-IV; (Mouse organ) (Srivastava, R.A.K. (1090) 95)

Apolipoprotein A-I binding protein
Apolipoprotein A-I; Apolipoprotein J; Serum protein 40,40; (Human) (Ehnholm, C. (1086) 255)

Apolipoprotein A-II
Apolipoprotein E; Apo E isoform; HDL; VLDL; Lipoprotein metabolism (Borghini, I. (1083) 139)

HDL; Reverse cholesterol transport; Cholesterol transport; Apolipoprotein A-I; (Mouse macrophage) (Von Hodenberg, E. (1086) 173)

Apolipoprotein A-IV
Solution hybridization assay; LDL receptor; Apolipoprotein B; Apolipoprotein A-I; (Mouse organ) (Srivastava, R.A.K. (1090) 95)

Apolipoprotein B
Lipoprotein particle; Immunoaffinity chromatography (Bard, J.M. (1082) 170)

Gene expression; LDL receptor; Diet; Mouse strain (Srivastava, R.A.K. (1086) 29)

Apolipoprotein secretion; LDL receptor; (Human liver); (Hepatoma cell line) (Fuki, I.V. (1086) 237)

Solution hybridization assay; LDL receptor; Apolipoprotein A-I; Apolipoprotein A-IV; (Mouse organ) (Srivastava, R.A.K. (1090) 95)

Receptor binding domain; LDL receptor; Hypercholesterolemia; Gene mutation; (Human fibroblast) (Dunning, A.M. (1096) 231)

Apolipoprotein B-100
Chondroitin 6-sulfate; Lipoprotein; Atherosclerosis (Olsson, U. (1097) 37)

Apolipoprotein B accumulation
Lipoprotein secretion; Albumin; Glucose; Oleic acid (Arrol, S. (1086) 72)

Apolipoprotein B metabolism
Posttranscriptional regulation; Hypercholesterolemia; (Cynomolgus monkey) (Pape, M.E. (1086) 326)

Apolipoprotein B polar region
Proteoglycan; Glycosaminoglycan; LDL modification; Proteolysis; Thermal stability (Camejo, G. (1096) 253)

Apolipoprotein C
Surfactant; Surface activity; Fibrinogen; Respiratory distress syndrome (Seeger, W. (1081) 45)

Apolipoprotein E
Hyperthyroidism; VLDL; VLDL apoprotein (Wilcox, H.G. (1081) 246)

VLDL; LDL receptor; LDL receptor-related protein (Mokuno, H. (1082) 63)

Apo E isoform; Apolipoprotein A-II; HDL; VLDL; Lipoprotein metabolism (Borghini, I. (1083) 139)

Hepatic lipase; Activation; Mixed micelle; Phosphatidylcholine (Thuren, T. (1083) 217)

Lipoprotein metabolism; Transfection; (Chinese hamster ovary cell) (Shimano, H. (1086) 245)

Apolipoprotein E-3
Chylomicron; Cholesterol; Diet; (Skin fibroblasts); (Human) (Arnon, R. (1085) 336)

Fusion protein; λGT11 expression vector; LDL(B/E) receptor; Fibroblast (Ribeiro, A. (1087) 219)

Transgenic mouse; Metallothionein promotor; Lipoprotein metabolism (Shimano, H. (1090) 91)

Apolipoprotein J
Apolipoprotein A-I binding protein; Apolipoprotein A-I; Serum protein 40,40; (Human) (Ehnholm, C. (1086) 255)

Apolipoprotein secretion
Apolipoprotein B; LDL receptor; (Human liver); (Hepatoma cell line) (Fuki, I.V. (1086) 237)

Apolipoprotein-specific HDL
Chemical crosslinking; FPLC; Human cord blood; Immunoaffinity chromatography (Nichols, A.V. (1085) 306)

Apolipoprotein transfer
Unilamellar vesicle; Kinetic mechanism; Phospholipid vesicle (Ibdah, J.A. (1081) 220)

Aprotinin
Epidermal growth factor; Precursor; Urine; (Rat kidney) (Jørgensen, P.E. (1074) 284)

Apurinic/apyrimidinic endonuclease
DNA repair enzyme; Exonuclease; DNA phosphatase; Amino acid sequence; Priming enzyme (Seki, S. (1079) 57)

Aqueous space volume
Mitochondrion; Permeability transition; Calcium uniporter regulation (Igbavboa, U. (1059) 339)

Aqueous two-phase system
Partition coefficient; Poly(ethylene glycol); Dipeptide; Free volume (Eiteman, M.A. (1073) 451)

Arachidonate
Essential fatty acid; Phosphatidylcholine; VLDL; Sex related difference (Graham, A. (1081) 151)

Fatty acid retroconversion; Δ^4-Desaturation; Docosatetraenoate; Docosapentaeonate; Icosapentaenoate; (Human skin fibroblast); (Retinoblastoma cell) (Rosenthal, M.D. (1083) 29)

Arachidonate liberation
Bradykinin; Guanine nucleotide binding protein; (Murine osteoblast) (Yanaga, F. (1094) 139)

Arachidonic acid
Chylomicron; Docosahexaenoic acid; Icosapentanoic acid; Hepatic lipase; Lipoprotein lipase (Melin, T. (1075) 259)

Polyunsaturated fatty acid; Docosahexaenoic acid; Fish oil; (Rat pineal gland) (Sarda, N. (1081) 75)

Peroxide; Phospholipid; Erythrocyte; Acyltransferase; Ethanol (Allen, D.W. (1081) 267)

Structure determination; 11,12-Dihydroxyicosatetraenoic acid; Leukotriene; (Human platelet) (Westlund, P. (1081) 301)

1-Radyl-2-acetyl-*sn*-glycerophosphocholine; PAF; Icosapentaenoic acid; Phorbol myristate acetate; (Vascular endothelial cell) (Garcia, M.C. (1083) 37)

12-Lipoxygenase; Lipoxin; (Human platelet) (Hada, T. (1083) 89)

Endothelial cell; Membrane fatty acid composition; Procoagulant activity; Polymorphonuclear leukocyte adherence; Icosanoid production (Vossen, R.C.R.M. (1083) 243)

Phospholipase A_2; Secretory granule; Granular membrane; (Rat parotid gland) (Mizuno, M. (1084) 21)

Lipid peroxidation; Atherosclerosis; LDL; Linoleic acid; (Rabbit) (Wang, T. (1084) 129)

Lipoxygenase; Non-heme iron; Iron-binding domain (Matsuda, S. (1084) 202)

Endotoxin; Thromboxane; Protein synthesis; Protein kinase C; Macrophage; (*S. enteritidis*) (Geisel, J. (1085) 15)

DNA binding; Vitamin E; Lipid peroxidation; Arachidonic acid metabolism (Zhang, J.-R. (1085) 159)

Phospholipase A_2; Phospholipase C; Diacylglycerol lipase; Monoacylglycerol lipase; (Rat macrophage) (Errasfa, M. (1085) 201)

PAF; Prostaglandin; GPC, 1-alkyl-2-arachidonoyl; Estradiol; (Oophorectomized rat uterus) (Nakayama, R. (1085) 235)

5-Lipoxygenase; Leukotriene; Pancreas; Acinar cell (Natsui, K. (1085) 241)

Fatty acid elongation; Fatty acid desaturation; Icosapentaenoic acid; Clofibrate; (Rat liver) (Mimouni, V. (1086) 349)

Phorbol ester; Protein kinase C; Platelet (Banga, H.S. (1091) 115)

Tumor necrosis factor α; Phosphatidylinositol; Phospholipase C; Diacylglycerol; Prostaglandin (Rapuano, B.E. (1091) 374)

Protein kinase C; Calcium ion entry; (GH_3 cell) (MacEwan, D.J. (1094) 346)

5-Lipoxygenase; Sulfidopeptide-leucotriene; 5-Hydroxyicosatetraenoic acid; Oxygen saturation; Mucosal blood flow; Gastric ulcer (Pasechnikov, V.D. (1097) 45)

Arachidonic acid metabolism
CoA-independent transacylase; Phospholipase A_2; Alkyl phospholipid; U937 cell (Winkler, J.D. (1081) 339)

Hydroxyicosatetraenoic acid; Lipoxygenase; Chiral analysis; Phorbol ester; (Mouse skin) (Hughes, M.A. (1081) 347)

DNA binding; Arachidonic acid; Vitamin E; Lipid peroxidation (Zhang, J.-R. (1085) 159)

Ionophore A23187; Immunological challenge; Antigen; GC-MS; (Mast cell) (Nakamura, T. (1085) 191)

Cholera toxin; cyclic AMP synthesis; Prostaglandin synthesis; Protein synthesis; (Mouse Chinese hamster ovary cell) (Peterson, J.W. (1092) 79)

Leukotriene B_4 synthesis; Calcium ionophore A23187; Human neutrophil; Allergy; Ether-linked glycerophospholipid (Chabannes, B. (1093) 47)

Peroxisomal disorder; Prostaglandin metabolism; Interleukin-1; Prostaglandin E_2; Lipid metabolism; (Human fibroblast) (Tiffany, C.W. (1096) 41)

Calcium ion; Protein kinase C; Prostaglandin; Enterotoxin; Electrolyte transport; (Rat) (Khurana, S. (1097) 171)

Arachidonic acid (20:4($n-6$))
Δ^5-Desaturation; Incorporation; Dihomo-γ-linolenic acid (20:3($n-6$)); Rat liver microsome (Blond, J.P. (1084) 255)

Arachidonic acid release
Protein kinase C; Phospholipase A_2; Glucocorticosteroid; (Basophilic leukemia cell) (Zor, U. (1091) 385)

Arachidonoyl residue release
Phospholipase A_2; Phosphatidylcholine; Phosphatidylethanolamine; (Rabbit platelet) (Kim, D.K. (1083) 80)

Archaebacterium
Glutamate dehydrogenase; Thermophile; (*S. solfataricus*) (Schinkinger, M.F. (1073) 142)

Aspartate aminotransferase; Active site; Pyridoxal binding peptide; (*S. solfataricus*) (Birolo, L. (1080) 198)

Ether lipid; Hydroxyarchaeol; Serine lipid; Inositol lipid; (*M. barkeri*) (Nishihara, M. (1082) 211)

ARDS
Lung surfactant; Phospholipid; Glycerophospholipid; Diether phosphonolipid; Analog; Synthesis; Preparative HPLC; Surface activity; Respiratory distress syndrome; RDS (Turcotte, J.G. (1084) 1)

Surfactant; NRDS; Protein inhibition; Lysophosphatidylcholine (Cockshutt, A.M. (1086) 63)

Arg-Gly-Asp-containing
Snake venom peptide; Antiplatelet aggregation; Fibrinogen binding (Huang, T.-F. (1074) 136)

Arg-Gly-Asp tripeptide
Ajoene; Fibronectin; Respiratory burst; (Human neutrophil) (Sud'ina, G.F. (1091) 257)

Arginase
L-Arginine amidinohydrolase; Enzyme inactivation; Manganese enzyme; Thermostable enzyme; (*B. caldovelox*) (Patchett, M.L. (1077) 291)

Arginine
Phosphatidylcholine; Flip-flop; Acyl-CoA; Temperature dependence; (Human erythrocyte) (Andrick, C. (1064) 235)

L-Arginine
Parotid cell; L-Ornithine; Amylase release (Blachier, F. (1091) 151)

L-Citrulline; L-Ornithine; Polyamine; (Rat enterocyte) (Blachier, F. (1092) 304)

L-Arginine amidinohydrolase
Arginase; Enzyme inactivation; Manganese enzyme; Thermostable enzyme; (*B. caldovelox*) (Patchett, M.L. (1077) 291)

Arginine modification
Glyceralde-3-phosphate dehydrogenase; Amino acid modification; Enzyme conformation; Active site; Thiol group; (Rabbit muscle) (Kuzminskaya, E.V. (1075) 123)

α-Dicarbonyl reagent; Arginine reactivity (Baburaj, K. (1078) 258)

Deoxyribonuclease; Phenylglyoxal; DNA binding site; DNA protection; (Bovine pancreas) (Liao, T.-H. (1079) 335)

Arginine reactivity
Arginine modification; α-Dicarbonyl reagent (Baburaj, K. (1078) 258)

Arrhenius plot
Acetylcholine receptor; Channel kinetics; Temperature (Dilger, J.P. (1063) 253)

Arteriosclerosis
Cholesteryl ester; Phospholipid; Macrophage (Stein, O. (1082) 33)

Arylamine
Drug metabolism; *N*-Acetyltransferase; (Tonsil lymphocyte); (U937 cells); (HepG2 cells) (Coroneos, E. (1073) 593)

Arylphorin gene
Stage-specific expression; DNA-binding protein; (*Sarcophaga peregrina*) (Kim, J.W. (1089) 21)

2-Arylpropionyl-CoA epimerase
Stereoselective drug metabolism; Ibuprofen isomerization (Chen, C.-S. (1078) 411)

Arylsulfatase A
Arylsulfatase B; Cerebroside sulfatase; Development; Sulfolipid; (Rat brain) (Van der Pal, R.H.M. (1081) 315)

Arylsulfatase B
Arylsulfatase A; Cerebroside sulfatase; Development; Sulfolipid; (Rat brain) (Van der Pal, R.H.M. (1081) 315)

Ascorbate
Plasma membrane; Redox system; HL60 (Alcain, F.J. (1073) 380)

Blood cell membrane; Hematoporphyrin; Photosensitization; Quercetin; α-Tocopherol (Jan, C.-Y. (1086) 7)

Ascorbate oxidase
Dipalmitoylphosphatidylcholine; Liposome; Protein–lipid interaction; Freeze-fracture (Dini, L. (1062) 108)

Ascorbic acid
Cyclodextrin glucanotransferase; Ascorbic acid 2-*O*-α-glucoside; Oligosaccharide; Transglucosylation; α-Glucosidase (Tanaka, M. (1078) 127)

Ascorbic acid 2-*O*-α-glucoside
Cyclodextrin glucanotransferase; Ascorbic acid; Oligosaccharide; Transglucosylation; α-Glucosidase (Tanaka, M. (1078) 127)

Asialoglycoprotein receptor
cDNA sequence; Hepatic lectin; Galactose-terminated glycoprotein (Sanford, J.P. (1087) 259)

Asparin, 1 and 2
Bryodin-L; Colocin, 1 and 2; Lychnin; Mapalmin; PAP-R; Ribosome-inactivating protein; RNA *N*-glycosidase (Bolognesi, A. (1087) 293)

Aspartate
Lactic acid bacterium; Racemase; Purification; N-terminal sequence (Okada, H. (1078) 377)

Racemase; Gene cloning; Sequence; Overexpression; (*Streptococcus thermophilus*) (Yohda, M. (1089) 234)

Aspartate aminotransferase
Heterogeneity; Molecular form; Oxidation; Storage; (Chicken liver) (Imperial, S. (1077) 72)

Archaebacterium; Active site; Pyridoxal binding peptide; (*S. solfataricus*) (Birolo, L. (1080) 198)

Aspartic acid 237
Lactose carrier; Lysine 358; Membrane transport; Cotransport (King, S.C. (1062) 177)

Aspartic acid transport
Brush-border membrane; Stabilization; Glucose transport; Jejunal vesicle; (Rabbit); (Rat) (Maenz, D.D. (1069) 250)

Aspartic proteinase
Protein denaturation; Kinetics; (*E. parasitica*); (*M. miehei*) (Brown, E.D. (1076) 406)

Aspartylglycosaminuria
Glycoasparaginase; (Human urine) (Kaartinen, V. (1097) 28)

Aspirin
Cyclooxygenase; Peroxidase; Nonsteroidal anti-inflammatory drug; Heme; Co-oxidation (Smith, W.L. (1083) 1)

Association rate
Temperature jump; Chemical relaxation; Guanosine 2′-monophosphate; Guanosine 3′-monophosphate (MacKerell Jr., A.D. (1073) 357)

Astroglial cell
Blood-brain barrier; Brain microvessel endothelial cell; Glucose uptake; Conditioned medium; Glucose transporter (Takakura, Y. (1070) 11)

Atherosclerosis
Lipid peroxidation; Arachidonic acid; LDL; Linoleic acid; (Rabbit) (Wang, T. (1084) 129)

Benfluorex; Diabetes; Hypercholesterolemia; Hypertriglyceridemia; Insulin resistance; Obesity; Triacylglycerol synthesis (Brindley, D.N. (1085) 119)

Gene expression; Hyperlipidemia; Apolipoprotein; LDL receptor; Hypolipidemic drug; Probucol (Staels, B. (1085) 131)

Antioxidant; Lipoprotein; β-Carotene; (Human macrophage) (Jialal, I. (1086) 134)

Oxidized low-density lipoprotein; Acetylated low-density lipoprotein receptor; (Human endothelial cell) (Kume, N. (1091) 63)

LDL, oxidized; Lipid peroxidation; Cytotoxicity; Transition metal; (Bovine aortic endothelial cell) (Kuzuya, M. (1096) 155)

Chondroitin 6-sulfate; Apolipoprotein B-100; Lipoprotein (Olsson, U. (1097) 37)

Platelet activation; LDL; Epinephrine (Bochkov, V.N. (1097) 123)

Atomic absorption analysis
Metallothionein; 5-Azacytidine; Gene expression; Copper increase; (Human Hep G2 cell) (Foster, R. (1088) 373)

ATP
Mitochondrion; Hexokinase; Brain; Tumor (Kabir, F. (1057) 147)

P-glycoprotein; L-Leucine transport; Verapamil; Quinidine; Osmolarity (Horio, M. (1061) 106)

Smooth muscle; Cardiac muscle; Calcium ion transport; Proteinase (Lyu, R.-M. (1068) 97)

ATPase, F_0F_1-; Membrane enzyme; Purification; (*Z. mobilis*) (Reyes, L. (1068) 174)

Sodium ion efflux; Barnacle fiber; Microinjection (Bittar, E.E. (1070) 332)

Ischemia; Reperfusion; ATPase, Na^+/K^+-; Creatine phosphate; Sarcolemma; Calcium; (Dog) (Samouilidou, E.C. (1070) 343)

Protein degradation; Ubiquitin; Macropain; Proteosome; Multicatalytic proteinase (DeMartino, G.N. (1073) 299)

NMR; Visibility; (Liver) (Ikai, I. (1074) 289)

Actin polymerization; ADP; Thermodynamics; Calcium ion; Magnesium ion (Kinosian, H.J. (1077) 151)

Multicatalytic proteinase; Differentiation; Proteinase; (Murine erythroleukemia cell) (Tsukahara, T. (1079) 273)

Hexokinase activity; Ubiquitin; Glycolytic enzyme (Murakami, K. (1080) 83)

Cyanide; Horseradish peroxidase; Lucifer yellow; Sucrose; Phosphate transport (Kempson, S.A. (1091) 324)

Hypoxia; Hypoxic recovery; Phosphoarginine; NMR, in vivo; NMR imaging; (Mussel) (Fan, T.W.-M. (1092) 39)

Platelet phosphorylation; Ecto-protein kinase; Ecto-protein phosphatase; Platelet activation; Platelet secretion; (Human platelet) (Naik, U.P. (1092) 256)

Calcium; Guanylate cyclase; Atrial natriuretic factor; cyclic GMP (Chang, C.-H. (1093) 42)

Absolute quantification; Phosphocreatine; Inorganic phosphate; NMR, ^{31}P-; Spectroscopy, ^{31}P-NMR; (Rat thigh muscle) (De Bisschop, E. (1094) 147)

Deoxyadenosine triphosphate; 2′-Deoxycoformycin; Lymphoproliferative malignancy; Hemolytic anemia (Nakashima, K. (1094) 257)

Exocytosis; GTP binding-protein G_E; Protein kinase C; Magnesium ion; (Mast cell) (Lillie, T.H.W. (1094) 355)

ATP, caged
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Protein conformation; FTIR (Barth, A. (1057) 115)

Potassium channel, ATP-regulated; Beta-cell; ATP-regulated potassium channel (Ämmälä, C. (1092) 347)

ATP compartmentalization
Cholinergic synaptosome; (*Torpedo*) (Solsona, C. (1095) 57)

ATP-dependent proteolysis
Ubiquitin conjugate-preferential proteinase; Cerebral cortex; (Rat) (Okada, M. (1073) 514)

ATP depletion
Calcium; Cell damage; Enzyme release; Magnesium; Nickel; (Human fibroblast) (Kristensen, S.R. (1091) 285)

ATP diphosphohydrolase
ATPase, $(Ca^{2+} + Mg^{2+})$-, nonspecific; ATPase; Ectoenzyme; Plasma membrane; Myometrium (Magocsi, M. (1070) 163)

Smooth muscle cell; Endothelial cell; Vascular tone; Platelet aggregation; (Bovine aorta) (Côté, Y.P. (1078) 187)

ATP hydrolysis
ATPase, F_1F_0-; Catalytic site (Berden, J.A. (1057) 151)

ATP-independent acylation
2-Acyl lysoPI; Phospholipid remodelling (Darnell, J.C. (1084) 292)

ATP leakage
Electropermeabilization; Transformation; (*S. typhimurium*); (*E. coli*) (Sixou, S. (1088) 135)

ATP localization
Oligophosphoglyceroyl ATP; Purine nucleotide; (Rat liver mitochondria) (Patel, B. (1074) 178)

ATP-regulated potassium channel
Potassium channel, ATP-regulated; ATP, caged; Beta-cell (Ämmälä, C. (1092) 347)

ATP site
ATPase, H^+-; Transport ATPase; Plant ATPase; (*A. sativa*) (Roberts, G. (1064) 131)

ATP sulfurylase
Enzyme purification; Enzyme localization; Isoenzyme; (*Euglena*) (Li, J. (1078) 68)

ATP synthase
ATP synthase, F_0F_1-; F_o subunit; Proton conduction (Guerrieri, F. (1059) 348)

Oligomycin sensitivity conferring protein; DCCD; Energy coupling; Oligomycin; Proton translocation (Joshi, S. (1067) 255)

Amino acid sequence; cDNA; ATPase, F_1-; (Human) (Kataoka, H. (1089) 393)

Thyroxine; Cardiomyocyte; Heart hypertrophy; Mitochondrion; (Rat) (Das, A.M. (1096) 284)

ATP synthase, F_0F_1-
F_o subunit; ATP synthase; Proton conduction (Guerrieri, F. (1059) 348)

ATP synthase, F_1-
Heterodimer; Oligomeric structure (Harada, M. (1056) 279)

ATP synthase, F_1F_0-
ATP synthesis; ADP/ATP translocator; Mitochondrion; Lateral diffusion coefficient; Oxidative phosphorylation; Proton transfer (Gupte, S.S. (1069) 131)

ATP synthesis
CF_0-F_1 activation; P515; Electrochromism; Proton domain; Chloroplast (Ooms, J.J.J. (1056) 293)

ATP synthase, F_1F_0-; ADP/ATP translocator; Mitochondrion; Lateral diffusion coefficient; Oxidative phosphorylation; Proton transfer (Gupte, S.S. (1069) 131)

ATP/ADP translocator
Mitochondrial membrane; Contact site; Freeze-fracture; ADP (Bücheler, K. (1056) 233)

ATPase
Autoxidation; Glyceraldehyde; Monosaccharide; Oxidation; (Red blood cell) (Mira, M.L. (1060) 257)

Plasma membrane; Yeast; Glycoprotein; Membrane domain; Immunogold electron microscopy (Serrano, R. (1062) 157)

Calcium pump, isoform; Brain artery; Liver; Kidney; (Rabbit) (Spencer, G.G. (1063) 15)

Plasma membrane; ATPase activating system; Protein turnover; Protein stability; (*S. cerevisiae*) (Benito, B. (1063) 265)

Cornea; Calmodulin; Epithelium; Plasma membrane; Calcium ion transport (Reinach, P.S. (1068) 1)

Vacuolar ATPase; Pyrophosphatase; Immunoreactivity; Cold inactivation; Proton transport; (*A. acetabulum*) (Ikeda, M. (1070) 77)

ATPase, ($Ca^{2+}+Mg^{2+}$)-, nonspecific; ATP diphosphohydrolase; Ectoenzyme; Plasma membrane; Myometrium (Magocsi, M. (1070) 163)

ATPase activating system
Plasma membrane; ATPase; Protein turnover; Protein stability; (*S. cerevisiae*) (Benito, B. (1063) 265)

ATPase activity
Ouabain; Sodium concentration; (Rat nephron) (El Mernissi, G. (1064) 205)

ATPase, Ca^{2+}-
Sarcoplasmic reticulum; Protein conformation; FTIR; ATP, caged (Barth, A. (1057) 115)

Erythrocyte plasma membrane; Calcium pump; Enzyme solubilization; Enzyme crystallization; Nonionic detergent; (Porcine blood) (Pikuła, S. (1061) 206)

Sarcoplasmic reticulum; Glycoprotein, 53 kDa; Cooperativity (Kutchai, H. (1064) 49)

Glycoprotein, 53 kDa; Sarcoplasmic reticulum; Saturation transfer EPR; EPR (Mahaney, J.E. (1064) 55)

Calcium ion transport; Basolateral membrane; (Pig) (Timmermans, J.A.H. (1065) 177)

Sarcoplasmic reticulum; Alkaline metal ion; NMR, ^{23}Na-; (Skeletal muscle) (Timonin, I.M. (1066) 43)

ATPase, Na^+/K^+-; ATPase, H^+/K^+-; Photocleavage; Vanadate; Sarcoplasmic reticulum (Molnar, E. (1068) 17)

Sarcoplasmic reticulum; Photochemical surface labeling; Fluorescent dye (Molnar, E. (1068) 27)

Skeletal muscle sarcolemma; Hyperthyroidism; Lipid content; Phospholipid fatty acid composition; Fluorescence polarization; Membrane fluidity; Calcium pump; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

Sarcoplasmic reticulum; FTIR (Buchet, R. (1068) 201)

Sarcoplasmic reticulum; Calcium ion; Caged calcium; FTIR (Buchet, R. (1069) 209)

Sarcoplasmic reticulum; Pressure effect; Fluorescence; Prodan; Fluo-3; Calcium ion indicator; (Rabbit) (Jona, I. (1070) 355)

Crystallization; Electron diffraction; Sarcoplasmic reticulum; (Rabbit) (Varga, S. (1070) 374)

n-Alkanol; Spin label; Lipid/protein interface (Lopes, C.M.B. (1070) 467)

Membrane protein; Two-dimensional crystal; Propionate (Misra, M. (1077) 107)

Sarcoplasmic reticulum; Vanadate inhibition; Enzyme intermediate; (Frog muscle) (Vashchenko, V.I. (1079) 8)

Freeze-thaw; Membrane protein; Denaturation; Amino acid (Lalonde, R.J. (1079) 128)

Sarcoplasmic reticulum; Calcium ion pump; Proteoliposome; Freeze-thaw sonication; Skeletal muscle; (Rabbit) (Szymańska, G. (1091) 127)

ATPase, ($Ca^{2+}+Mg^{2+}$)-
Non-heme iron; Erythrocyte; (Human) (Leclerc, L. (1062) 35)

Chemical crosslinking; Monoclonal antibody; Sarcoplasmic reticulum; Glycoprotein, 53 kDa; Calsequestrin (Burgess, A.J. (1064) 139)

Sarcoplasmic reticulum; Phosphate transporter; Phosphonocarboxylic acid (Stefanova, H.I. (1064) 321)

Glycoprotein, 53 kDa; Sarcoplasmic reticulum; Calcium ion transport (Grimes, E.A. (1064) 335)

Sarcoplasmic reticulum; Epitope (Tunwell, R.E.A. (1073) 585)

Cholesterol/phosphatidylcholine liposome; Smooth muscle cell; Intracellular calcium (Zhou, Q. (1085) 1)

ATPase, (Ca^{2+}-Mg^{2+})-
Nucleoside triphosphatase; Ectoenzyme; Small artery (Plesner, L. (1067) 191)

Nucleoside triphosphatase; Ectoenzyme; Small artery (Juul, B. (1067) 201)

ATPase, ($Ca^{2+}+Mg^{2+}$)-, nonspecific
ATP diphosphohydrolase; ATPase; Ectoenzyme; Plasma membrane; Myometrium (Magocsi, M. (1070) 163)

ATPase, Ca^{2+}-stimulated
ATPase, Mg^{2+}-; Sulfhydryl group; Superoxide anion; Hydrogen peroxide; Hypochlorous acid; (Rat heart myofibril) (Suzuki, S. (1074) 95)

ATPase, Ca^{2+}-transport
Lipid–protein interaction; Fluorescence energy transfer (Verbist, J. (1063) 1)

ATPase, F_1-
7-Chloro-4-nitrobenzofurazan; 5′-*p*-Fluorosulfonylbenzoylinosine; Enzyme inactivation (Bullough, D.A. (1057) 208)

Protein purification; Mitochondrion; IEF; HPLC (Gagliardi, D. (1059) 323)

ATPase, F_0F_1-
β-Subunit; Beta-subunit; Chloroplast; (*E. coli*) (Munn, A.L. (1060) 82)

ATP; Membrane enzyme; Purification; (*Z. mobilis*) (Reyes, L. (1068) 174)

Amino acid sequence; cDNA; ATP synthase; (Human) (Kataoka, H. (1089) 393)

ATPase, F_1F_0-
ATP hydrolysis; Catalytic site (Berden, J.A. (1057) 151)

Structure–function relationship; Delta subunit; (*E. coli*) (Mendel-Hartvig, J. (1060) 115)

ATPase, H^+-
Photophosphorylation; Adenylate kinase; NMR, ^{31}P-; Chromatophore; (*C. vinosum*, *C. tepidum*) (Nozawa, T. (1060) 189)

Transport ATPase; ATP site; Plant ATPase; (*A. sativa*) (Roberts, G. (1064) 131)

GTPase; (*N. crassa*) (Addison, R. (1065) 130)

Proton pump inhibitor; ATPase, H^+/K^+-; Omeprazole; Bafilomycin (Mattsson, J.P. (1065) 261)

ATPase, H^+/K^+-
Phosphate, inorganic; Phosphorylation; Dephosphorylation; (SCH 28080) (Van der Hijden, H.T.W.M. (1061) 141)

Proton pump inhibitor; ATPase, H^+-; Omeprazole; Bafilomycin (Mattsson, J.P. (1065) 261)

ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; Photocleavage; Vanadate; Sarcoplasmic reticulum (Molnar, E. (1068) 17)

Phosphorylation; Detergent; Orientation; Free fatty acid (Swarts, H.G.P. (1070) 283)

Heterodimer; Cross-link; Glycoprotein; $C_{12}E_8$; Glutaraldehyde; Soluble enzyme; Wheat germ agglutinin; FITC (Hall, K. (1077) 173)

ATPase inhibitor
SPAI-1; ATPase, Na^+/K^+-; Endogenous peptide; Peptide; (Porcine duodenum) (Ishizuka, N. (1069) 259)

ATPase, Mg^{2+}-
ATPase, Ca^{2+}-stimulated; Sulfhydryl group; Superoxide anion; Hydrogen peroxide; Hypochlorous acid; (Rat heart myofibril) (Suzuki, S. (1074) 95)

ATPase, myofibrillar
Calcium binding; Magnesium; Troponin; (Skeletal muscle, fast) (Morimoto, S. (1073) 336)

ATPase, Na^+/K^+-
Amino-terminus; Lysine cluster; Deletion mutant; (*R. catesbiana*) (Ohta, T. (1059) 157)

Phosphatase, K^+-; Cation; Magnesium ion; Choline; Conformational change (Robinson, J.D. (1061) 267)

Enzyme conformation; Phosphorylation; Acetyl phosphate; Inorganic phosphate; (Pig kidney) (Berberián, G. (1063) 217)

Oligomycin (Esmann, M. (1064) 31)

AU-1421; Phosphoenzyme; Potassium binding site; Site-directed probe; Amine inhibition; (Sheep kidney) (Takada, J. (1065) 153)

Potassium ion; Substrate binding; Enzyme activation (Cornelius, F. (1067) 227)

ATPase, Ca^{2+}-; ATPase, H^+/K^+-; Photocleavage; Vanadate; Sarcoplasmic reticulum (Molnar, E. (1068) 17)

Current-voltage relationship; Reversed pump mode; (*Xenopus* oocyte) (Efthymiadis, A. (1068) 73)

Sodium pump; Diacylglycerol; Monoacylglycerol (Askari, A. (1069) 127)

ATPase inhibitor; SPAI-1; Endogenous peptide; Peptide; (Porcine duodenum) (Ishizuka, N. (1069) 259)

Phosphatase, K^+-; Choline; Dimethyl sulfoxide; Oligomycin; Sodium ion; Potassium occlusion (Robinson, J.D. (1069) 281)

Reaction sequence; Oligomycin; Sodium ion; Potassium ion; Conformational change; Ion transport (Pratap, P.R. (1069) 288)

Isoform; Electrophoresis; Sequence analysis; Monoclonal antibody (Cortas, N. (1070) 223)

Ischemia; Reperfusion; ATP; Creatine phosphate; Sarcolemma; Calcium; (Dog) (Samouilidou, E.C. (1070) 343)

Cation transport pathway; Voltage dependence; Sodium pump (Halperin, J.A. (1070) 497)

Oligomycin activation (Plesner, L. (1076) 421)

Atractyloside
Hepatocyte; Mitochondrion; Fructose; 2-Phosphoglycerate (Grivell, A.R. (1059) 45)

Atrazine
Herbicide; Charge recombination; Unspecific binding; Photoaffinity labeling; Photosystem II concentration (Jursinic, P.A. (1059) 312)

Atrial natriuretic factor
Calcium; Guanylate cyclase; ATP; cyclic GMP (Chang, C.-H. (1093) 42)

AU-1421
ATPase, Na^+/K^+-; Phosphoenzyme; Potassium binding site; Site-directed probe; Amine inhibition; (Sheep kidney) (Takada, J. (1065) 153)

Autoantibody
Human pancreatic elastase 1; Radioimmunoassay; Affinity constant (Asada, H. (1080) 34)

Autoimmune antibody
Ribonuclease H; RNA polymerase I (Vonwirth, H. (1087) 31)

Autoimmunity
Antigen, 65 kDa; Molecular chaperone; GroEL related protein; (Chinese hamster ovary) (Ahmad, S. (1087) 253)

Heat shock protein; cDNA sequence; Chaperonin protein; GroEL related protein; (Mouse) (Venner, T.J. (1087) 336)

Autologous antibody
Melanoma; Tumor-associated antigen; Immunology; Serology (Vlock, D.R. (1080) 1)

Autolysis
Calpain I; Catalytic subunit; Calcium concentration; Cleavage site (Zimmerman, U.-J.P. (1078) 192)

Activation; Calcium ion dependence; Phosphatidylcholine; Phosphatidylinositol; Phosphatidylserine; Proteolysis (Cottin, P. (1079) 139)

Autolytic activation
Calcium-activated; Proteinase; Proteinase inhibitor; (Erythrocyte) (Hayashi, M. (1094) 249)

Automodification domain
Poly(ADP-ribose) polymerase; Acceptor site (Desmarais, Y. (1078) 179)

Autonomously replicating sequence
DNA replication initiation; Mammalian DNA replication; Replication origin; Early activated origin; Class of origin (Landry, S. (1088) 234)

Autoxidation
Glyceraldehyde; ATPase; Monosaccharide; Oxidation; (Red blood cell) (Mira, M.L. (1060) 257)

Auxin
Coleoptile; Membrane potential; Membrane current; (*Zea mays*) (Felle, H. (1064) 199)

Axial ligand
Cytochrome *c*; Mono-multiheme; Sulfate reducer; (*Desulfovibrio*); (Spectroscopy) (Moura, J.J.G. (1058) 61)

5-Azacytidine
DNA methylation; genomic DNA; Sodium butyrate; Tumor cell line; (Human) (Cosgrove, D.E. (1087) 80)

Metallothionein; Gene expression; Copper increase; Atomic absorption analysis; (Human Hep G2 cell) (Foster, R. (1088) 373)

Aziridinium ion
Acetylcholinesterase; Chemical modification; Acceleration (Sepp, A. (1077) 407)

AZT
Human immunodeficiency virus; Nucleoside diphosphate diglyceride; Pyrophosphatase; Mitochondrion (Van Wijk, G.M.T. (1084) 307)

HIV; Hepatitis B virus; Phospholipid prodrug; Dideoxycytidine; 3′-Deoxythymidine; Mitochondrion; Microsome (Van Wijk, G.M.T. (1086) 99)

B

Bacterial energetics
Cation cycle; Sodium ion transport; Protonmotive force; (*E. coli*) (Dibrov, P.A. (1056) 209)

Bacterial mutant
Ultraviolet radiation; Pyrimidine dimer; Antibody binding; Enzyme immunoassay; Plasmid vector; Specific gene fragment; DNA blot; DNA damage; Excision repair (Wani, A.A. (1090) 195)

Bacterial photosynthesis
Antenna; Bacteriochlorophyll; Chlorosome; Pump-probe spectroscopy; Ultrafast spectroscopy; (*C. aurantiacus*) (Lin, S. (1060) 13)

Bacterial protein
GTP-binding protein; Pertussis toxin; (Mastocytoma P-815 cell) (Takahashi, S. (1093) 207)

Bacterial proteinase
Plasma prekallikrein; Kallikrein-kinin system; Pseudomonal infection; Pseudomonal elastase; Pseudomonal alkaline proteinase (Shibuya, Y. (1097) 23)

Bacterial reaction center
Langmuir-Blodgett film; Energy transduction; Photosynthetic bacterium (Alegria, G. (1057) 239)

Langmuir-Blodgett film; Photosynthetic bacterium; Chromatophore; Linear dichroism; (*Rps. viridis*) (Alegria, G. (1057) 258)

Bacterial respiration
Nitrate reductase; Molybdoenzyme; Denitrification; Overproduction; (*Pseudomonas*) (Blümle, S. (1057) 102)

Bacteriochlorophyll
Chlorosome; Energy transfer; (*C. aurantiacus*); (Time-resolved picosecond spectroscopy) (Miller, M. (1057) 187)

Photosynthesis; Light harvesting complex; Pigment–protein interaction; Fourier transform Raman spectroscopy; (*Rb. sulfidophilus*) (Mäntele, W. (1057) 367)

Exciton interaction; Photosynthesis (Van Mourik, F. (1059) 111)

Antenna; Bacterial photosynthesis; Chlorosome; Pump-probe spectroscopy; Ultrafast spectroscopy; (*C. aurantiacus*) (Lin, S. (1060) 13)

Excitation annihilation; Fluorescence yield; Antenna complex; (*Rps. acidophila*) (Deinum, G. (1060) 125)

Photosynthesis; Reaction center; Pigment exchange; Pigment–protein interaction; Borohydride modification; Bacteriopheophytin (Struck, A. (1060) 262)

Bacteriochlorophyll *g*
HPLC; Bacteriochlorophyll *g* epimer; Pigment composition; (*H. chlorum*); (*Hb. mobilis*) (Kobayashi, M. (1057) 89)

Bacteriochlorophyll *g* epimer
HPLC; Bacteriochlorophyll *g*; Pigment composition; (*H. chlorum*); (*Hb. mobilis*) (Kobayashi, M. (1057) 89)

Bacterioferritin
Cytochrome *c'*; Hemoferritin; Ferritin; 4-α-helical (Moore, G.R. (1058) 38)

Ferritin; Iron storage (Andrews, S.C. (1078) 111)

Bacteriophage M13
Translational regulation; Filamentous phage; Single-stranded DNA binding protein (Zaman, G. (1089) 183)

Bacteriopheophytin
Reaction center; Photosynthesis; (*Ectothiorhodospira* sp.) (Mar, T. (1056) 190)

Reaction center; Charge recombination; Conformation; Quinone; (*Rps. viridis*) (Gao, J.-L. (1056) 259)

Photosynthesis; Reaction center; Pigment exchange; Pigment–protein interaction; Borohydride modification; Bacteriochlorophyll (Struck, A. (1060) 262)

Bacteriorhodopsin
Purple membrane; Action spectrum; Photoelectric effect; Charge displacement current (McIntosh, A.R. (1056) 149)

Chromophore; Conformational change; Purple membrane (Swords, N.A. (1070) 313)

Chemical modification; Fluorescamine; Fluorescence; Forster resonance energy transfer; (*H. halobium*) (Sonar, S.M. (1076) 239)

Bacterium
Glutathione transferase; Enzyme characterization; (*S. marcescens*) (Di Ilio, C. (1077) 141)

Chloramphenicol acetyltransferase; Transcription system; Transfection; TLC; (Rat liver) (De Maio, A. (1087) 303)

Baculovirus
Rhodopsin; Site-specific mutagenesis; Expression vector; Glycosylation (Jansen, J.J.M. (1089) 68)

Bafilomycin
Proton pump inhibitor; ATPase, H^+/K^+-; ATPase, H^+-; Omeprazole (Mattsson, J.P. (1065) 261)

Band 3
Lactate transport; Stilbene disulfonate; Inhibitor; Erythrocyte (Poole, R.C. (1070) 69)

Malaria; Erythrocyte; Membrane; (Human) (Jones, G.L. (1097) 71)

Band 3 protein
Protein structure; Phosphorylation; Phosphopeptide; (Human erythrocyte membrane) (Yannoukakos, D. (1061) 253)

Erythrocyte; Hemolysis; Iron deficiency; Thalassemia; Spherocytosis; pH effect (Sauer, A. (1063) 203)

pH dependence; Site-directed mutagenesis; (*Xenopus* oocyte) (Kietz, D. (1064) 81)

Phosphorylation; Phosphotyrosine; Capillary electrophoresis; (Human erythrocyte membrane) (Yannoukakos, D. (1066) 70)

AE1 protein; Anion transport; Bicarbonate; Erythrocyte; Nitrate; NMR (Galanter, W.L. (1079) 146)

Malaria; Erythrocyte; Phosphorylation; Amino terminal extension (Jones, G.L. (1096) 33)

Band 7
Erythrocyte; Membrane protein; cDNA sequence; Protein structure analysis (Hiebl-Dirschmied, C.M. (1090) 123)

Band 7 protein
Erythrocyte; Membrane protein; Monoclonal antibody; Epitope map (Hiebl-Dirschmied, C.M. (1065) 195)

Barium ion blockage
Sarcoplasmic reticulum; Bilayer; Potassium ion channel; Conductance level; Microsome; (Canine aorta) (Bezprozvanny, I.B. (1064) 75)

Barnacle fiber
Sodium ion efflux; Microinjection; ATP (Bittar, E.E. (1070) 332)

Barrier function
NMR, ^{2}H-; Freeze-fracture; Polymorphism; Stratum corneum lipid; Ceramide; Hexagonal phase (Abraham, W. (1068) 189)

Basic peptide
Membrane binding; Vesicle fusion; Sulfatide specificity (Stankowski, S. (1068) 61)

Basic variant
Transthyretin; Amyloidosis; Polymorphism; Peptide mapping; Plasma protein (Almeida, M.R. (1097) 224)

Basidiomycete
Lignin degradation; Veratryl alcohol oxidase; (*P. ostreatus*) (Sannia, G. (1073) 114)

Basolateral endocytosis
Nonfiltering perfused kidney; Peritubular clearance; Insulin receptor; (Rat) (Sato, H. (1073) 442)

Basolateral membrane
Chloride permeability; Chloride–bicarbonate exchange; pH regulation; (Frog skin) (Lacoste, I. (1063) 103)

Phosphate transport; Sodium ion dependence; (Pig kidney) (Azzarolo, A.M. (1064) 229)

ATPase, Ca^{2+}-; Calcium ion transport; (Pig) (Timmermans, J.A.H. (1065) 177)

Phosphatidylcholine transfer protein; Apical membrane; Dipalmitoylphosphatidylcholine; (MDCK cell) (Zlatkine, P. (1065) 225)

Phospholipid; Cholesterol; Lindane; Membrane fluidity; Brush-border membrane; (Rat kidney) (Pérez-Albarsanz, M.A. (1066) 124)

Iron absorption; Iron(III); (Mouse intestine) (Snape, S. (1074) 159)

Basolateral membrane potential
Hyperpolarization; pH effect; Sodium–potassium ion exchange; Organic acid; Membrane potential; Proximal tubule; (*Necturus* kidney) (Granitzer, M. (1066) 111)

Bathophenanthroline disulfonate (BPS)
Diferric transferrin; Ferricyanide; Ferrozine; Redox activity; K562 cell (Bérczi, A. (1073) 562)

BCECF
Endotoxin; Lipopolysaccharide; Calcium ion; pH; Fura-2; (Hepatocyte) (Portolés, M.T. (1092) 1)

B-chronic lymphocytic leukemia
Phorbol ester; Fructose 2,6-bisphosphate; Protein kinase C (Colomer, D. (1097) 270)

Bean leaf protein
Pathogenesis-related protein (Awade, A. (1077) 241)

bek
FGF receptor; cDNA sequence; Tyrosine kinase; *flg*; *bfr*; Soluble receptor; (Human) (Seno, M. (1089) 244)

Benfluorex
Atherosclerosis; Diabetes; Hypercholesterolemia; Hypertriglyceridemia; Insulin resistance; Obesity; Triacylglycerol synthesis (Brindley, D.N. (1085) 119)

***o*-Benzoquinone**
3,4-Dihydroxymandelic acid; Oxidative decarboxylation; *p*-Benzoquinone methide; Electrochemical oxidation; 3,4-Dihydroxybenzaldehyde (Czapla, T.H. (1077) 400)

***p*-Benzoquinone methide**
3,4-Dihydroxymandelic acid; Oxidative decarboxylation; Electrochemical oxidation; 3,4-Dihydroxybenzaldehyde; *o*-Benzoquinone (Czapla, T.H. (1077) 400)

***N*-Benzoylglycine ester**
Papain; QSAR; Enzymic hydrolysis; SAR; Glycinate ester (Compadre, C.M. (1079) 43)

Benzyl alcohol
Water permeation; Water diffusion; Antipyrine; ADH; cyclic AMP; (MDCK cell) (Giocondi, M.-C. (1064) 315)

Beryllium fluoride
Bromoperoxidase; Reactivation; Aluminum fluoride; Pyrophosphate; (*A. nodosum*) (Tromp, M. (1079) 53)

Beta-cell
Depolarization; Cytosolic calcium; HIT-T15 cell; Lactate; Cation permeability (Lynch, A.M. (1091) 141)

Potassium channel, ATP-regulated; ATP, caged; ATP-regulated potassium channel (Ämmälä, C. (1092) 347)

Beta-cell membrane
Volume regulation; Cotransport; Furosemide; Rubidium ion efflux; (Mouse) (Engström, K.G. (1091) 145)

Beta-chain
Hemoglobin Calais; Human hemoglobin variant; Oxygen affinity; HPLC, RP- (Wajcman, H. (1096) 60)

Betaine
Photosystem II; Oxygen evolution; (Spinach thylakoid) (Papageorgiou, G.C. (1057) 361)

NMR, ^{1}H-; Liver development; Taurine; Phosphocholine; Glycerophosphorylcholine (Rafter, J.E.M. (1074) 263)

Chronic renal failure; Plasma; Urine; NMR; Trimethylamine *N*-oxide; Lactate; Ammonium ion (Bell, J.D. (1096) 101)

Beta-oxidation
Fatty acid β-oxidation; Mitochondrial enzyme; Respiratory chain (Sumegi, B. (1081) 121)

Peroxisome; HETES; Mitochondrion; Mutant (Gordon, J.A. (1085) 21)

Beta oxidation, peroxisomal
Peroxisomal β-oxidation; Docosahexaenoic acid; Icosapentaenoic acid; Clofibrate; Phospholipid; (Rat. *hepatocyte)* (Grønn, M. (1081) 85)

Beta sheet
Protein precipitate; Secondary structure; Raman spectroscopy (Przybycien, T.M. (1076) 103)

Beta-subunit
ATPase, F_0F_1-; β-Subunit; Chloroplast; (*E. coli*) (Munn, A.L. (1060) 82)

Bethanecol
Alkaline phosphatase; Gastric secretion; Cholecystokinin; (Rat intestine) (Eliakim, R. (1091) 1)

bfr
FGF receptor; cDNA sequence; Tyrosine kinase; *bek*; *flg*; Soluble receptor; (Human) (Seno, M. (1089) 244)

BHV-1
Glycoprotein H; Infectious bovine rhinotracheitis virus (Meyer, A.L. (1090) 267)

Bicarbonate
Photosystem II; EPR; Reaction center; Iron-quinone complex (Bowden, S.J. (1060) 89)

AE1 protein; Anion transport; Band 3 protein; Erythrocyte; Nitrate; NMR (Galanter, W.L. (1079) 146)

Bicarbonate effect
Cyanobacterium; D2 polypeptide; Photosystem II; Site-directed mutagenesis; (*Synechocystis* sp. PCC 6803) (Cao, J. (1059) 171)

Bicarbonate transport
Sodium ion–proton exchange; Brush-border membrane vesicle; Acidosis; (Rat kidney) (Grassl, S.M. (1061) 226)

Bienzyme complex
Substrate modulated interaction; Specificity; Dynamism; Fructose bisphosphate (Vértessy, B.G. (1078) 236)

Bilayer
Thylakoid; Galactolipid; Photosynthesis; Lipid property (Webb, M.S. (1060) 133)

NMR, ^{1}H-; Membrane dynamics; Phosphatidylcholine; Cholesterol; Spin lattice relaxation time (Han, X. (1063) 129)

Sarcoplasmic reticulum; Potassium ion channel; Barium ion blockage; Conductance level; Microsome; (Canine aorta) (Bezprozvanny, I.B. (1064) 75)

Gramicidin conformation; Phosphatidylcholine; NMR, ^{2}H-; CD (Morrow, M.R. (1070) 209)

Bilayer lipid membrane
pH microelectrode; pH change; Protonophore; Membrane potential (Antonenko, Y.N. (1070) 279)

Nigericin; Tributyltin; Phloretin; Dipole potential; Ionophore (Antonenko, Y.N. (1070) 474)

Bilayer membrane
Polymorphism; Lipid hydration; Phase transition (Cevc, G. (1062) 59)

Bilayer permeability
Microencapsulated liposome system; Lipid–alginate interaction; Pulsatile release; Phospholipid bilayer (Cohen, S. (1063) 95)

Bilayer permeabilization
Lipid–peptide interaction; Melittin, formylated; Melittin, acetylated; Melittin, succinylated; Tryptophan modification (Stankowski, S. (1069) 77)

Bile
Taurocholate; Bile duct; Fat absorption; Phosphatidylcholine (Knox, R. (1083) 65)

Bile acid
Transport; Cyclopeptide; Hepatocyte; (Rat liver) (Ziegler, K. (1061) 287)

HDL; Phospholipase; Cholesterol; (Rat hepatocyte) (Collet, X. (1081) 211)

Cholesterol; Estrogen; Progesterone; Hormone (Kushwaha, R.S. (1084) 300)

Bile acid binding protein
Rat ileal cytosol; Photoaffinity labeling; Immunoblotting; Amino acid composition; Amino acid sequence (Lin, M.C. (1078) 329)

Bile acid conjugation
Enterohepatic circulation; 2-Fluoro-β-alanine (Zhang, R. (1096) 179)

Bile acid formation
Fatty acid oxidation; Peroxisomal β-oxidation (Osmundsen, H. (1085) 141)

Bile acid malabsorption
Bile acid synthesis; Dietary cholesterol; Lymphatic drainage (Björkhem, I. (1085) 329)

Bile acid synthesis
Bile acid malabsorption; Dietary cholesterol; Lymphatic drainage (Björkhem, I. (1085) 329)

Bile acid transport
Cytosolic protein; 3α-Hydroxysteroid dehydrogenase; Indomethacin; (Rat hepatocyte) (Takikawa, H. (1084) 247)

Linear peptide; Renin inhibitor; (Liver cell) (Bertrams, A. (1091) 337)

Bile acid transport system
Linear renin inhibiting peptide; (Hepatocyte) (Bertrams, A.A. (1073) 213)

Bile duct
Bile; Taurocholate; Fat absorption; Phosphatidylcholine (Knox, R. (1083) 65)

Bile flow
Lithocholate; Cholestasis; (Rat) (Takikawa, H. (1081) 39)

Bile salt
Procolipase; Colipase; Trypsin activation; Lipase; Lipase binding (Larsson, A. (1083) 283)

Detergent; Glycosphingolipid; Glycoside hydrolase; (bacteria) (Falk, P. (1084) 139)

Steroid hydroxylation; Biliary excretion; Hydrophilicity; (Rat liver) (Crawford, J.M. (1085) 223)

Cytotoxicity; Vascular endothelial cell; (Human) (Garner, C.M. (1091) 41)

Cytotoxicity; Hepatotoxicity; Glucuronidation (Takikawa, H. (1091) 173)

Bile salt dependence
Enzyme specificity; Lipase; Capelin oil; (Cod); (*Gadus morhua*); (Human) (Gjellesvik, D.R. (1086) 167)

Bile salt stimulated lipase
Gastric digestion; Gastric lipase; Milk lipid; Suckling neonate (Iverson, S.J. (1083) 109)

Biliary cirrhosis
Pyruvate dehydrogenase complex; Polymorphism; cDNA (Moehario, L.H. (1097) 128)

Biliary excretion
Steroid hydroxylation; Hydrophilicity; Bile salt; (Rat liver) (Crawford, J.M. (1085) 223)

Biliary lipid–protein association
Cholesterol nucleation time; (Human bile) (Corradini, S.G. (1086) 125)

Biliprotein
Phycocyanin 645; Exciton migration; Picosecond fluorescence; Photosynthesis; (*Chroomonas*) (Malak, H. (1059) 165)

Bilirubin
Superoxide; NADPH oxidase; Cell-free system; (Pig neutrophils) (Kwak, J.Y. (1076) 369)

Bilirubin-albumin
Monoclonal antibody (Okamura, Y. (1073) 538)

Bilirubin photoisomer
Hepatic transport; Photobilirubin transport; (Isolated perfused rat liver) (Pellegrino, J.M. (1074) 25)

Biliverdin reductase
Heme catabolism; Protein antigenicity; Thiol-disulfide regulation; Oxidative stress; (Rat liver) (Frydman, J. (1076) 321)

Binary system
Sodium bis(2-ethylhexyl) phosphate; Ternary system; Vesicle; Swollen micelle; Transmission electron microscopy; DSC; Interfacial tension (Nakache, E. (1074) 413)

Binding coefficient
Steroid hormone transport; Serum protein carrier; Liquid membrane system; Partition coefficient (Watanabe, S. (1073) 275)

Binding domain
Glucoamylase; Cyclodextrin; Starch (Belshaw, N.J. (1078) 117)

Binding isotherm
Magainin; Acidic lipid membrane; Electrostatic interaction; Membrane fluidity; Secondary structure (Matsuzaki, K. (1063) 162)

Binding property
Ionization state; *Myo*-Inositol 1,4,5-trisphosphate (Schmitt, L. (1075) 139)

Binding protein
Glycyrrhetinic acid; (Rat liver) (Negishi, M. (1066) 77)

Molecular cloning; Gene structure; Sequence similarity; (Silk moth) (Krieger, J. (1088) 277)

Binding site
Heat-labile toxin; Intestinal brush border; Galactoprotein; Development; (*E. coli*) (Griffiths, S.L. (1075) 154)

Glutamine synthetase; Spin label; Catalytic site; (*E. coli*) (Ubom, G.A. (1077) 91)

Binding stoichiometry
Biotin repressor; Biotin operator; Gel retardation (Lin, K.-C. (1090) 317)

Binding study
Papain; Aldehyde; NMR (Hanzlik, R.P. (1073) 33)

Pertussis toxin; Equilibrium dialysis; NAD^+ binding; (*B. pertussis*) (Lobban, M.D. (1078) 155)

Bioactivity
Recombinant human CNTF; Gene expression; Neural cell; (*E. coli*) (McDonald, J.R. (1090) 70)

Bioconversion
Glyceryl trinitrate; Nitrite; Nitrate; Nitric oxide; (*P. chrysosporium*) (Servent, D. (1074) 320)

Bioenergetics
Neurotransmitter release; Cation; Exocytosis (McMahon, H.T. (1059) 243)

Biotinidase
Aminopeptidase; Exo-peptidase; Opioid neuropeptide (Oizumi, J. (1074) 433)

Biotin operator
Biotin repressor; Binding stoichiometry; Gel retardation (Lin, K.-C. (1090) 317)

Biotin repressor
Biotin operator; Binding stoichiometry; Gel retardation (Lin, K.-C. (1090) 317)

Biotin-streptavidin technology
Cholecystokinin internalization; Amylase secretion; Inositol phosphate; Pancreatic acini; (Rat) (Winand, J. (1080) 181)

Biotinylation
Electroinsertion; Erythrocyte; Flow cytometry; Life-span (Mouneimne, Y. (1066) 83)

Bipolar lipid
Planar lipid membrane; Electrical breakdown (Melikyan, G.B. (1068) 245)

Bis(4-acyloxyphenyl)methane
Elastase; Suicide substrate; Halomethyldihydrocoumarin (Vilain, A.-C. (1076) 401)

BisHOP
Liposome; Stearylamine; DOTMA (Senior, J.H. (1070) 173)

Bisoxonol
Oxonol; Exocytosis; Mast cell; Membrane potential; Sodium pump; Potassium (Bronner, C. (1070) 321)

Bleaching
Photosynthesis; Phycocyanin; Subunit spectrum; Copper complex (Woo Park, J. (1056) 181)

Bleb formation
Electroinduced bleb; Cell deformation; DNA transfer; Electro-transformation; Freeze-fracture; (*E. coli* membrane) (Sabelnikov, A.G. (1066) 21)

Blood-brain barrier
Brain microvessel endothelial cell; Hexose uptake; 3-*O*-Methyl-D-glucose; Insulin; Glucose transporter (Takakura, Y. (1070) 1)

Brain microvessel endothelial cell; Glucose uptake; Astroglial cell; Conditioned medium; Glucose transporter (Takakura, Y. (1070) 11)

Blood cell membrane
Ascorbate; Hematoporphyrin; Photosensitization; Quercetin; α-Tocopherol (Jan, C.-Y. (1086) 7)

Blood circulation time
Liposome; Stability; Pharmacokinetics; Brush formation (Lasic, D.D. (1070) 187)

Blood / liposome interaction
Phospholipid liposome; Liver perfusion; Liposome uptake; Liposome absorption; (Rat liver) (Nicholas, A.R. (1074) 105)

Blood protein
Liposome; Chromatography; Complement (Chonn, A. (1070) 215)

Bloom's syndrome
Uracil-DNA glycosylase; DNA repair (Seal, G. (1097) 299)

Blue copper protein
Amicyanin; EXAFS analysis; *(T. versutus)* (Lommen, A. (1076) 439)

Blue fluorescence
Lipid peroxy radical; α-Crystallin; Cross-link; Dityrosine; Cataract (Kikugawa, K. (1096) 108)

B lymphocyte differentiation
Protein kinase C; Phorbol ester (Murphy, J.J. (1092) 110)

Bombesin
GTPase; G protein; (Mouse fibroblast) (Morello, L. (1092) 397)

Bone
Dentin; Matrix protein; Phosphoprotein; Hydroxyapatite (Fujisawa, R. (1075) 56)

Alkaline phosphatase; Phosphotransferase activity; Kinetic mechanism (Mueller, K. (1076) 308)

Bone Gla protein
Vitamin K; γ-Carboxyglutamic acid; Matrix Gla protein (Engelke, J.A. (1078) 31)

Bone marrow
Macrophage; Liposome; Reticuloendothelial system; Ganglioside; Poly(ethylene glycol) (Allen, T.M. (1061) 56)

Bone morphogenetic protein 2 (BMP-2)
cDNA sequence; Evolutionary conservation; (*X. Laevis*) (Plessow, S. (1089) 280)

Bone protein synthesis
Growth hormone; Somatomedin (Martínez, J.A. (1093) 111)

Borohydride modification
Photosynthesis; Reaction center; Pigment exchange; Pigment–protein interaction; Bacteriochlorophyll; Bacteriopheophytin (Struck, A. (1060) 262)

Botulinum neurotoxin
Circular dichroism; Derivative spectroscopy; (*C. botulinum*); (*C. butyricum*) (Singh, B.R. (1077) 119)

Bound substrate
Stoichiometry; Dihydrofolate reductase; Affinity chromatography (Williams, E.A. (1078) 47)

Bovine placenta
Prolactin-like protein; Prolactin-growth hormone family; Molecular cloning (Tanaka, M. (1088) 385)

Br-A23187
Bradykinin; Inositol phosphate; Cytosolic free calcium; Fibroblast (Huang, H.-M. (1091) 409)

Bradykinin
Br-A23187; Inositol phosphate; Cytosolic free calcium; Fibroblast (Huang, H.-M. (1091) 409)

Arachidonate liberation; Guanine nucleotide binding protein; (Murine osteoblast) (Yanaga, F. (1094) 139)

Brain
Mitochondrion; Hexokinase; Tumor; ATP (Kabir, F. (1057) 147)

Lipoprotein transport; LDL; Cholesterol transport; LDL receptor; (Hamster) (Malavolti, M. (1081) 106)

Brain artery
Calcium pump, isoform; ATPase; Liver; Kidney; (Rabbit) (Spencer, G.G. (1063) 15)

Brain microvessel endothelial cell
Blood-brain barrier; Hexose uptake; 3-*O*-Methyl-D-glucose; Insulin; Glucose transporter (Takakura, Y. (1070) 1)

Blood-brain barrier; Glucose uptake; Astroglial cell; Conditioned medium; Glucose transporter (Takakura, Y. (1070) 11)

Branched chain α-ketoacid dehydrogenase complex
α-Ketoacid dehydrogenase complex; Pyruvate dehydrogenase complex; α-Ketoglutarate dehydrogenase complex (Matuda, S. (1089) 1)

8-BrcAMP
Proto-oncogene; Isoproterenol; Salivary epithelial cell cycle (Yeh, C.-K. (1090) 173)

Breast cancer
Thymidine kinase; Progestin; Human breast cancer (Moore, M.R. (1096) 170)

***n*-Bromoalkylphenanthridinium bromide**
DNA binding; DNA alkylation; Antitumor activity (Wickham, G. (1073) 528)

Bromoperoxidase
Vanadate; Alginate; Mucilage; Poly(ethylene glycol); Partition; Two-phase system; (*Laminaria*) (Jordan, P. (1073) 98)

Vanadium bromoperoxidase; Vanadium prosthetic group; Steady state kinetics; Dioxygen formation; (*M. pyrifera*); (*F. distichus*) (Soedjak, H.S. (1079) 1)

Reactivation; Beryllium fluoride; Aluminum fluoride; Pyrophosphate; (*A. nodosum*) (Tromp, M. (1079) 53)

Brown adipose tissue
Obesity; Gold-thioglucose; Insulin sensitivity; Lipogenesis; Liver; White adipose (Blair, S.C. (1085) 385)

Brush-border enzyme
Galactose; Enterocyte differentiation; (Mouse intestine) (Smith, M.W. (1093) 144)

Brush-border membrane
Intestine; *myo*-Inositol transport; D-Glucose inhibition; Sodium dependence; (Rat) (Scalera, V. (1062) 187)

Sodium ion/D-glucose cotransporter; D-Glucose cotransport; Polyclonal antibody; Immunological recognition; (Pig kidney) (Gérardi-Laffin, C. (1063) 21)

Zinc binding; Zinc ion binding site; Ionophore A23187; Cadmium; (Pig small intestine) (Tacnet, F. (1063) 51)

Cholesterol transfer protein; (Small intestine) (Thurnhofer, H. (1064) 275)

Sodium ion/glucose cotransport; Energetic coupling; Kinetics; (Pig kidney) (Centelles, J.J. (1065) 239)

Phospholipid; Cholesterol; Lindane; Membrane fluidity; Basolateral membrane; (Rat kidney) (Pérez-Albarsanz, M.A. (1066) 124)

Protein methylation; *S*-Adenosyl-L-methionine; (Rat kidney cortex) (Gingras, D. (1066) 261)

Lipid peroxidation; Peroxidative damage; Protein conformation; Fluorometry; *N*-(1-Pyrene)maleimide; (Porcine small intestine) (Ohyashiki, T. (1067) 159)

Stabilization; Glucose transport; Aspartic acid transport; Jejunal vesicle; (Rabbit); (Rat) (Maenz, D.D. (1069) 250)

Fatty acid composition; Cell differentiation; Mucosa; (Pig small intestine) (Alessandri, J.-M. (1086) 340)

Sulfhydryl; Vitamin D; Intestine; Steroidal hormone; (Chicken) (Tolosa de Talamoni, N. (1094) 224)

Brush-border membrane transporter
Diethyl pyrocarbonate; Chemical modification; Transport system (Beaumier, B. (1068) 142)

Brush-border membrane vesicle
Sodium ion–proton exchange; Bicarbonate transport; Acidosis; (Rat kidney) (Grassl, S.M. (1061) 226)

Insulin; Glucose transport; Sodium ion/glucose cotransporter; Streptozotocin-induced diabetes; Phlorizin binding; (Rat small intestine) (Fujii, Y. (1063) 90)

Amino acid transport; Hyperglycemia; (Guinea-pig small intestine) (Satoh, O. (1063) 155)

Glutamate transport; Cotransport; Sodium dependence; Chloride dependence; Hepatopancreas; (*Homarus americanus*) (Balon, L.M. (1067) 123)

Spermine; Polyamine; Spermine transport; (Rat intestine) (Iseki, K. (1068) 105)

DIDS; 4,4′-Diisothiocyanatodihydrostilbene-2,2′-disulfonic acid; Covalent binding; Sodium/phosphate cotransporter; (Rat) (Azzarolo, A.M. (1069) 70)

Sodium ion/D-glucose cotransport; Ethanol; Sodium ion–proton exchange; Sodium ion transport; Glucose transport; (Rabbit kidney) (Parenti, P. (1070) 92)

Brush-border vesicle
Peptide transport; Substrate specificity; Proton gradient; Electrogenicity; Iodolabeled peptide; (Rat kidney) (Tiruppathi, C. (1069) 14)

Brush formation
Liposome; Stability; Blood circulation time; Pharmacokinetics (Lasic, D.D. (1070) 187)

Bryodin-L
Asparin, 1 and 2; Colocin, 1 and 2; Lychnin; Mapalmin; PAP-R; Ribosome-inactivating protein; RNA *N*-glycosidase (Bolognesi, A. (1087) 293)

Bundle
Hydrophobic helix; Helix–lipid association (Wang, J. (1070) 493)

Burkitt lymphoma
Ig switch region; Polymerase chain reaction; (Namalwa) (Middleton, P.G. (1090) 109)

'Burst' synthesis
Purine phosphoribosyltransferase; Initial reaction; (*Artemia*) (Montero, C. (1084) 149)

Buthionine sulfoximine
Malic enzyme; Glutathione; Methionine (Ayala, A. (1084) 48)

Proteoglycan; Type II collagen; Type X collagen; Glutathione; (Chick chondrocyte) (Habuchi, O. (1093) 153)

Butylated hydroxytoluene
Protein kinase C; Thrombin; Protein phosphorylation (Ruzzene, M. (1094) 121)

***tert*-Butyl hydroperoxide**
Lipid oxidation; Sphingomyelin; Lipid bilayer; Conjugated diene; NMR, ^{1}H-; Infrared; Fluorescence (Lamba, O.P. (1081) 181)

Butyrobetaine
L-Carnitine; Carnitine supplementation (Sandor, A. (1083) 135)

Butyrylcholinesterase
Acetylcholinesterase; Affinity labelling; Diazonium salt (Ehret-Sabatier, L. (1076) 137)

Tubocurarine; Inhibition; Stopped-flow; Conformation; Modeling (Stojan, J. (1079) 96)

C

C5a
Proteinase; Enzyme purification; (*Streptococcus*, Group B); (Human) (Bohnsack, J.F. (1079) 222)

CAAX motif
Polyisoprenylation; Posttranslational modification (Newman, P. (1080) 227)

Cable equation
Model membrane; Membrane potential; Glycerol monooleate; Gramicidin; Silicon; Micromechanics (Fromherz, P. (1062) 103)

Cα catalytic subunit
Myoblast; cyclic AMP-dependent protein kinase; cDNA; (Rat) (Wiemann, S. (1089) 254)

Caco-2
Intestine; Iron transport (Alvarez-Hernandez, X. (1070) 205)

Cadmium
Brush-border membrane; Zinc binding; Zinc ion binding site; Ionophore A23187; (Pig small intestine) (Tacnet, F. (1063) 51)

Metallothionein; cDNA; Polymerase chain reaction; Polymerase chain reaction; Tandem mass spectrometry; *N*-Acetylation; (Mollusc); (Oyster) (Unger, M.E. (1074) 371)

Metallothionein; mRNA half-life; Zinc; Spermatogenic cell; (Chicken); (Mouse) (De, S.K. (1090) 223)

Cadmium-binding protein
Metallothionein; Mollusc; *N*-Acetylation; Protein structure; Tandem mass spectrometry (Roesijadi, G. (1074) 230)

Cadmium ion
Phosphate transport; Uncoupling; Phosphate/proton symporter; Oxidative phosphorylation; (Rat liver mitochondria) (Koike, H. (1060) 75)

Caffeine
Calcium ion release; Halothane; Malignant hyperthermia; Sarcoplasmic reticulum (Carrier, L. (1064) 175)

Caged calcium
Sarcoplasmic reticulum; Calcium ion; ATPase, Ca^{2+}-; FTIR (Buchet, R. (1069) 209)

Calcium
Manganese; Chloride; Photosystem II; Oxygen evolution; Polypeptide; EPR multiline signal (Yocum, C.F. (1059) 1)

Ischemia; Reperfusion; ATPase, Na^+/K^+-; ATP; Creatine phosphate; Sarcolemma; (Dog) (Samouilidou, E.C. (1070) 343)

Vitamin D; Steroid hormone receptor; Vitamin D metabolite; Intestinal nuclei; (Pig intestine) (Brown, T.A. (1073) 324)

Phospholipid biosynthesis; Cytochalasin; Colchicine; EGTA; Verapamil; Digitonin-permeabilization; Rat glioma cell (George, T.P. (1084) 185)

Cytosol; Lipoxygenase (Nichols, R.C. (1085) 77)

Calpastatin; Inhibitor; Calpain; CANP; cDNA cloning (Ishida, S. (1088) 436)

Calmodulin; Microtubule-associated protein 2; Calmodulin-dependent protein kinase II; Phosphorylation; Inactivation (Katoh, T. (1091) 205)

ATP depletion; Cell damage; Enzyme release; Magnesium; Nickel; (Human fibroblast) (Kristensen, S.R. (1091) 285)

Chlortetracycline; Neutrophil; Fluorescence response; Membrane transport (Jacob, J. (1091) 317)

Okadaic acid; Secretion; Protein phosphatase, type 2A (Wu, Y.N. (1092) 384)

Guanylate cyclase; Atrial natriuretic factor; ATP; cyclic GMP (Chang, C.-H. (1093) 42)

PAF synthesis; Endothelium; Thrombin; Protein kinase C; cyclic AMP (Heller, R. (1093) 55)

Hepatocyte; Iron uptake; Transmembrane transport (Nilsen, T. (1095) 39)

Renin secretion; Osmolality pressure; Renin-angiotensin-aldosterone system (Fray, J.C.S. (1097) 243)

Calcium-activated
Proteinase; Autolytic activation; Proteinase inhibitor; (Erythrocyte) (Hayashi, M. (1094) 249)

Calcium activation
Influenza virus; Sialidase; Glycohydrolase (Chong, A.K.J. (1077) 65)

Calcium binding
Magnesium; Troponin; ATPase, myofibrillar; (Skeletal muscle, fast) (Morimoto, S. (1073) 336)

Parvalbumin; EF-hand; Fluorescence (Permyakov, E.A. (1076) 67)

NMR, ^{1}H-; Lysozyme; (Equine) (Tsuge, H. (1078) 77)

Calcium channel
GTP-binding protein; Second messenger; Regulation (Dolphin, A.C. (1091) 68)

Sodium ion/proton antiporter activity, in vivo; L-type calcium channel; β_2-Adrenoceptor; (Rat skeletal muscle) (Syme, P.D. (1093) 234)

Calcium chloride
Histone $H1^0$; HMG-like; Microplasmodium; (*P. polycephalum*) (Heads, R.J. (1079) 15)

Calcium concentration
Calpain I; Catalytic subunit; Autolysis; Cleavage site (Zimmerman, U.-J.P. (1078) 192)

Calcium concentration, cytoplasmatic
Volatile anesthetic; Norepinephrine release; Protein kinase C; Fura-2 (Tas, P.W.L. (1091) 401)

Calcium concentration, cytosolic free
Cholesterol; Platelet activating factor; Monocyte; (U937 cell) (Aepfelbacher, M. (1074) 125)

Calcium current
Transient outward current; Potassium current; A-current; (*E. vannus*) (Krüppel, T. (1062) 193)

Calcium, cytosolic
Epinephrine; Protein kinase C; Cytosolic calcium; cyclic AMP; (Human platelet) (Zoccarato, F. (1092) 72)

Calcium deposit
Cholestanol feeding; Cerebrotendinous xanthomatosis; Corneal opacity; (Mouse) (Kim, K.S. (1085) 343)

Calcium homeostasis
Lead toxicity; Hypertension; NMR, ^{19}F-; (Human platelet) (Dowd, T.L. (1092) 341)

Membrane potential; Voltage-operated calcium ion channel; (Cultured human muscle cell) (Jacobs, A.E.M. (1096) 14)

Calcium-inducible expression
Interleukin-2 gene; Gene transfection; T cell; (Human) (Gulino, A. (1087) 7)

Calcium influx
Catecholamine secretion; Osmotic strength; Nicotinic receptor; Voltage-dependent calcium channel; (Chromaffin-cell) (Heldman, E. (1091) 417)

Calcium, intracellular
α_2-Adrenoceptor agonist; Clonidine; Epinephrine; Patch clamp; Cell membrane potential (Weiss, H. (1069) 165)

Membrane potential; Cell injury; Photodynamic action; Photosensitization; Zinc phthalocyanine disulfonate (Specht, K.G. (1070) 60)

Cell membrane potential; Potassium channel; Inositol phosphate; Pertussis toxin; Phorbol ester (Lang, F. (1073) 600)

Fatty acid composition; Membrane; (Leukemic T cell) (Chow, S.C. (1092) 358)

Calcium ion
Phosphatase; Calcium pump; Acidic phospholipid; Erythrocyte; (Human) (Rossi, J.P.F.C. (1061) 49)

Ion channel; Chloride; SF-9 cell; δ-Endotoxin; Fura-2; (*B. thuringiensis*) (Schwartz, J.-L. (1065) 250)

HeLa cell; Isotonic; Potassium ion transport; Chloride transport; Regulatory volume decrease (Ikehara, T. (1068) 87)

Sarcoplasmic reticulum; Caged calcium; ATPase, Ca^{2+}-; FTIR (Buchet, R. (1069) 209)

Actin polymerization; ATP; ADP; Thermodynamics; Magnesium ion (Kinosian, H.J. (1077) 151)

Phosphorylase kinase; Actin; Smooth muscle; (bovine stomach) (Zevgolis, V.G. (1091) 222)

Endotoxin; Lipopolysaccharide; pH; Fura-2; BCECF; (Hepatocyte) (Portolés, M.T. (1092) 1)

Adenylate cyclase activation; Dithiothreitol; Polyamine; EDTA; cyclic AMP binding (*D. discoideum*) (Oyama, M. (1092) 85)

pH, intracellular; Calcium mobilization; Chemotaxis; Cell activation; (Human neutrophils) (Fonteriz, R.I. (1093) 1)

Cell cycle; Calmodulin; Calcium ion concentration, transient; Cytosolic free calcium concentration; DNA replication; Mitosis; Nuclear division (Anraku, Y. (1093) 169)

Catecholamine; Glucose transport; Insulin; GLUT-4; (Rat heart) (Rattigan, S. (1094) 217)

Oxyntomodulin (19–37); Glucagon; Somatostatin release; Inositol phosphate; (RIN T3 cell) (Tani, T. (1095) 249)

Protein kinase C; Arachidonic acid metabolism; Prostaglandin; Enterotoxin; Electrolyte transport; (Rat) (Khurana, S. (1097) 171)

Calcium ion accumulation
Sarcoplasmic reticulum; Thyroxine (Shoshan-Barmatz, V. (1065) 82)

Calcium ion adsorption
Phosphatidylcholine vesicle; Surface property; Sonicated vesicle; Fluorescence quenching (Bakás, L.S. (1065) 114)

Calcium ion binding
Phospholipase A_2; Catalytic mechanism (Bekkers, A.C.A.P.A. (1076) 374)

Cardiac sarcolemma; Glycoprotein; Antigen; Dihydropyridine receptor (Tuana, B.S. (1091) 236)

Calcium ion binding protein
Chemotaxis; (*B. subtilis*) (Grazia Tozzi, M. (1080) 160)

Calcium ion channel
Platelet; Platelet membrane potential; Platelet aggregation; Calcium ion, intracellular; Divalent cation; Dihydropyridine; (Human blood) (Palés, J. (1064) 169)

Chromaffin cell; Fura-2; Lead ion influx; Voltage dependence; Dihydropyridine sensitivity (Tomsig, J.L. (1069) 197)

Calcium ion concentration, transient
Cell cycle; Calcium ion; Calmodulin; Cytosolic free calcium concentration; DNA replication; Mitosis; Nuclear division (Anraku, Y. (1093) 169)

Calcium ion dependence
Activation; Autolysis; Phosphatidylcholine; Phosphatidylinositol; Phosphatidylserine; Proteolysis (Cottin, P. (1079) 139)

Lung; Phospholipid binding protein; Phospholipase A_2; Monolayer (Tsao, F.H.C. (1081) 141)

Calcium ion dependent proteinase
Calpain; Calpastatin; Muscle; Proteinase; (Bovine skeletal muscle) (Edmunds, T. (1077) 197)

Calcium ion effect
Amylase secretion; Permeability; (Mouse pancreatic acinar cell) (Kitagawa, M. (1073) 129)

Calcium ion entry
Arachidonic acid; Protein kinase C; (GH_3 cell) (MacEwan, D.J. (1094) 346)

Calcium ion flux, control
Oxidative phosphorylation; NAD-linked dehydrogenase (Moreno-Sánchez, R. (1060) 284)

Calcium ion indicator
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Pressure effect; Fluorescence; Prodan; Fluo-3; (Rabbit) (Jona, I. (1070) 355)

Calcium ion, intracellular
Platelet; Platelet membrane potential; Platelet aggregation; Calcium ion channel; Divalent cation; Dihydropyridine; (Human blood) (Palés, J. (1064) 169)

Calcium ion–lipid interaction
Dimyristoylphosphatidylglycerol; Electric field effect; Lipid phase transition; Phase diagram (Thürk, M. (1067) 153)

Calcium ion / membrane binding protein, 38 kDa
Lipocortin phosphorylation; Protein kinase C; Isoenzyme; Phospholipid-dependent calcium-independent protein kinase; (Granulocytes); (Pig) (Farkas, G. (1091) 81)

Calcium ion mobilization
Cholecystokinin receptor; (Rat pancreatic acini) (Kusui, T. (1094) 231)

Calcium ionophore
Vitamin E analog; Muscle damage (Phoenix, J. (1097) 212)

Calcium ionophore A23187
Arachidonic acid metabolism; Leukotriene B_4 synthesis; Human neutrophil; Allergy; Ether-linked glycerophospholipid (Chabannes, B. (1093) 47)

Calcium ion oscillation
Inositol trisphosphate; Calcium ion release; (Human fibroblast) (Peres, A. (1092) 89)

Calcium ion pump
Gene; Sarcoplasmic/endoplasmic reticulum; (Pig) (Eggermont, J.A. (1088) 448)

Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Proteoliposome; Freeze-thaw sonication; Skeletal muscle; (Rabbit) (Szymańska, G. (1091) 127)

Calcium ion regulation
Sodium–calcium ion exchange; Calcium ion transport; Synaptic membrane; Electric organ; (*T. ocellata*) (Tessari, M. (1066) 208)

Phosphatidylinositol kinase; Phosphatidylinositol 4-phosphate kinase; Phospholipase C; Diacylglycerol kinase; Tobacco plasma membrane (Kamada, Y. (1093) 72)

Calcium ion release
Mitochondrion; Lasalocid-A; Nigericin; (Liver); (Heart) (Antonio, R.V. (1056) 250)

Caffeine; Halothane; Malignant hyperthermia; Sarcoplasmic reticulum (Carrier, L. (1064) 175)

Inositol trisphosphate; Calcium ion oscillation; (Human fibroblast) (Peres, A. (1092) 89)

Calcium ion spike
Fura-2; Chief cell; (Canine gastric mucosa) (Tsunoda, Y. (1091) 251)

Calcium ion transport
Oxytocin; Sarcoplasmic reticulum (Magocsi, M. (1063) 7)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Glycoprotein, 53 kDa; Sarcoplasmic reticulum (Grimes, E.A. (1064) 335)

ATPase, Ca^{2+}-; Basolateral membrane; (Pig) (Timmermans, J.A.H. (1065) 177)

Sodium–calcium ion exchange; Calcium ion regulation; Synaptic membrane; Electric organ; (*T. ocellata*) (Tessari, M. (1066) 208)

Sarcoplasmic reticulum; Excitation–contraction coupling; Halothane; Hydrocarbon (Ritov, V.B. (1067) 187)

Cornea; Calmodulin; Epithelium; ATPase; Plasma membrane (Reinach, P.S. (1068) 1)

Smooth muscle; Cardiac muscle; ATP; Proteinase (Lyu, R.-M. (1068) 97)

Phospholipid; Lysophospholipid; Phospholipase A_2; Liver mitochondrion; (Rat) (Rustenbeck, I. (1069) 99)

Calcium metabolism
Vitamin D; 24-*epi*-1α,25-Dihydroxyvitamin D-2; 1α,25-Dihydroxyvitamin D-7; Leukemia differentiation (Sato, F. (1091) 188)

Calcium mobilization
Calcium ion; pH, intracellular; Chemotaxis; Cell activation; (Human neutrophils) (Fonteriz, R.I. (1093) 1)

Calcium phosphate precipitation
Casein phosphopeptide; Intestinal protein digestion; NMR, ^{31}P-; β-Casein (Sato, R. (1077) 413)

Calcium / phospholipid binding protein
Annexin; cyclic AMP-binding protein; (*Dictyostelium*) (Greenwood, M. (1088) 429)

Calcium pump
Phosphatase; Calcium ion; Acidic phospholipid; Erythrocyte; (Human) (Rossi, J.P.F.C. (1061) 49)

Erythrocyte plasma membrane; ATPase, Ca^{2+}-; Enzyme solubilization; Enzyme crystallization; Nonionic detergent; (Porcine blood) (Pikuła, S. (1061) 206)

Skeletal muscle sarcolemma; Hyperthyroidism; Lipid content; Phospholipid fatty acid composition; Fluorescence polarization; Membrane fluidity; ATPase, Ca^{2+}-; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

p-Nitrophenylphosphatase; Calmodulin-binding domain; Inhibition; (Human red cell) (Caride, A.J. (1069) 94)

Sarcoplasmic reticulum; Heart muscle; Fluoride effect (Narayanan, N. (1070) 83)

Calcium pump, isoform
ATPase; Brain artery; Liver; Kidney; (Rabbit) (Spencer, G.G. (1063) 15)

Calcium release
Membrane permeability; Mitochondrial membrane; Carboxyatractyloside (Chávez, E. (1070) 461)

Calcium release channel
Sarcoplasmic reticulum; Ryanodine receptor; (Heart) (Lindsay, A.R.G. (1064) 89)

Anthraquinone; Dantrolene; Excitation–contraction coupling; Ryanodine binding; Cardiotoxicity (Tian, Q. (1094) 27)

Calcium uniporter regulation
Mitochondrion; Permeability transition; Aqueous space volume (Igbavboa, U. (1059) 339)

Calcium uptake
1,25-Dihydroxyvitamin D-3; Skeletal muscle; G protein; Fluoride (De Boland, A.R. (1094) 238)

Calmodulin
Conformation; Spin label; EPR (Yacko, M.A. (1064) 7)

Cornea; Epithelium; ATPase; Plasma membrane; Calcium ion transport (Reinach, P.S. (1068) 1)

Glycogen phosphorylase (Takrama, J.F. (1077) 371)

Mitochondrion; Proteinase (Wright, L.S. (1079) 174)

Calcium; Microtubule-associated protein 2; Calmodulin-dependent protein kinase II; Phosphorylation; Inactivation (Katoh, T. (1091) 205)

Manganese; Phosphorylation; Pancreas; Elongation factor 2 (Knight, S.A.B. (1092) 196)

Cell cycle; Calcium ion; Calcium ion concentration, transient; Cytosolic free calcium concentration; DNA replication; Mitosis; Nuclear division (Anraku, Y. (1093) 169)

Calmodulin-binding domain
p-Nitrophenylphosphatase; Calcium pump; Inhibition; (Human red cell) (Caride, A.J. (1069) 94)

Calmodulin-dependent protein kinase II
Calcium; Calmodulin; Microtubule-associated protein 2; Phosphorylation; Inactivation (Katoh, T. (1091) 205)

Calmodulin gene
Gene structure; Evolution; Promoter; (Human) (Koller, M. (1087) 180)

Calmodulin-regulated phosphatase
Islet phosphatase; Islet calcineurin; Isolated islet (Gagliardino, J.J. (1091) 370)

Calorimetry
Phospholipid; Phase diagram; Membrane electrostatics (Silvius, J.R. (1070) 51)

Calpain
NCAM; Synaptic; Plasticity; Cytoskeleton (Sheppard, A. (1076) 156)

Calpastatin; Muscle; Calcium ion dependent proteinase; Proteinase; (Bovine skeletal muscle) (Edmunds, T. (1077) 197)

Calpastatin; Inhibitor; CANP; Calcium; cDNA cloning (Ishida, S. (1088) 436)

Calpastatin; Essential hypertension; (Human red cell); (Rat red cell) (Salamino, F. (1096) 265)

Calpain I
Catalytic subunit; Autolysis; Calcium concentration; Cleavage site (Zimmerman, U.-J.P. (1078) 192)

Calpain inhibitor
Invasion; Erythrocyte; Proteinase inhibitor; (*P. falciparum*) (Olaya, P. (1096) 217)

Calpastatin
Calpain; Muscle; Calcium ion dependent proteinase; Proteinase; (Bovine skeletal muscle) (Edmunds, T. (1077) 197)

Inhibitor; Calpain; CANP; Calcium; cDNA cloning (Ishida, S. (1088) 436)

Calpain; Essential hypertension; (Human red cell); (Rat red cell) (Salamino, F. (1096) 265)

Calsequestrin
Hibernation; Cardiac sarcoplasmic reticulum; Ryanodine receptor (Milner, R.E. (1063) 120)

Chemical crosslinking; Monoclonal antibody; Sarcoplasmic reticulum; Glycoprotein, 53 kDa; ATPase, $(Ca^{2+} + Mg^{2+})$- (Burgess, A.J. (1064) 139)

Camptothecin
DNA topoisomerase I; Mitochondrion; Human platelet (Kosovsky, M.J. (1078) 56)

Cancer cell
ICAM-1; Retinoid (Bouillon, M. (1097) 95)

CANP
Calpastatin; Inhibitor; Calpain; Calcium; cDNA cloning (Ishida, S. (1088) 436)

CAP
Chloramphenicol acetyltransferase; Gel mobility shift; Transfection (Kihara, F. (1089) 227)

Capacitance
Cornea; Epithelium; Amphotericin B; Conductance; Impedance analysis; Cell coupling (Reinach, P.S. (1066) 115)

Cap binding
Photoaffinity-label; Ultraviolet-crosslinking (Thalmann, E. (1088) 301)

Cap binding protein (IF-4E)
Amino acid sequence; 7-Methylguanine; Cooperative interaction; Spectroscopic study; mRNA cap structure (Ueda, H. (1075) 181)

Capelin oil
Enzyme specificity; Bile salt dependence; Lipase; (Cod); (*Gadus morhua*); (Human) (Gjellesvik, D.R. (1086) 167)

Capillary electrophoresis
Band 3 protein; Phosphorylation; Phosphotyrosine; (Human erythrocyte membrane) (Yannoukakos, D. (1066) 70)

Capsaicin
Plasma membrane fluidity; Fluorescence polarization; Anisotropy; Platelet aggregation (Meddings, J.B. (1070) 43)

Carbachol
Exocrine pancreas; L-Phenylalaline; Amino acid transport; Protein synthesis; (Rat) (Sweiry, J.H. (1070) 135)

Protein synthesis; Pancreatic acinar cell; Cholecystokinin (Perkins, P.S. (1092) 145)

Neuroblastoma cell; Muscarinic receptor; (SH-SY5Y) (Jansson, C.C. (1095) 255)

Carbamoylphosphate
Threonine dehydratase; Carbamoylpyridoxal 5′-phosphate; (Rat liver) (Pagani, R. (1077) 233)

Carbamoylpyridoxal 5′-phosphate
Threonine dehydratase; Carbamoylphosphate; (Rat liver) (Pagani, R. (1077) 233)

Carbodiimide
DNA modification; Antibody binding; Enzyme immunoassay; Non-isotopic DNA detection; Synthetic oligomer (Wani, A.A. (1088) 259)

Carbohydrate
Lipase hydrolysis; Synthesis; (*C. rugosa*) (Sanchez-Montero, J.M. (1078) 345)

Carbohydrate binding protein
β-Galactoside binding protein; Eukaryotic promoter; Gene expression; (Mouse) (Chiariotti, L. (1089) 54)

Carbohydrate metabolism
Rifamycin SV; Metal ion; Oxygen free radical; Glutathione; Cell viability; (Rat hepatocyte) (Sáez, G.T. (1092) 325)

Carbohydrate structure
Oligosaccharide, neutral; α-D-GalNAc unit; NMR, ^{13}C-; Colostrum, bovine (Urashima, T. (1073) 225)

Carbonic anhydrase
Hepatectomy; Regeneration; (Rat liver) (Marín, J.J.G. (1061) 9)

Urinary electrolyte; Renal acidification; Methazolamide; (Mouse) (Brechue, W.F. (1066) 201)

Dithiothreitol; Sulfonamide binding; Quaternary structure; (*C. reinhardtii*) (Husic, H.D. (1078) 35)

Carbon tetrachloride
Liver injury; NMR, ^{1}H-; Magnetic resonance imaging; (Rat) (Towner, R.A. (1096) 222)

Carbonyl hemoglobin
Carbonyl myoglobin; Conformer population; Freeze-concentration; (Infrared spectroscopy) (Astl, G. (1080) 155)

Carbonyl myoglobin
Carbonyl hemoglobin; Conformer population; Freeze-concentration; (Infrared spectroscopy) (Astl, G. (1080) 155)

Carbonyl reductase
Aldehyde dismutaion; Chloral hydrate; Kinetic mechanism; Chemical modification; (Guinea-pig lung) (Hara, A. (1075) 61)

Carboxyacyl derivative
Cardiolipin; Liposome; Proteoliposome; Covalent coupling; Chymotrypsin; Antibody (Niedermann, G. (1070) 401)

Carboxyatractyloside
Membrane permeability; Mitochondrial membrane; Calcium release (Chávez, E. (1070) 461)

5(6)-Carboxyfluorescein
Membrane permeability; Microwave radiation; Liposome; Fluorescence (Saalman, E. (1064) 124)

γ-Carboxyglutamic acid
γ-Glutamyl carboxylase; Posttranslational modification; Vitamin K (Soute, B.A.M. (1073) 434)

Vitamin K; Bone Gla protein; Matrix Gla protein (Engelke, J.A. (1078) 31)

Carboxylation
Propionate; NMR, ^{13}C-; Succinate pathway; Methylmalonyl-CoA; Propionyl-CoA : oxaloacetate transcarboxylase; Anaerobic state (Houwen, F.P. (1056) 126)

Carboxyl ester lipase
Phospholipase A_2; Gastric lipase; Hydrolysis (Lindström, M.B. (1084) 194)

Carboxylmethylation
Myelin basic protein; Proteolysis (Sellinger, O.Z. (1080) 110)

Carboxypeptidase
Substrate specificity; Peptide hydrolysis (Khoshtariya, D.E. (1076) 359)

Carcinogen
NADH oxidase; Plasma membrane; Diferric transferrin; 2-Acetylaminofluorene; (Rat liver) (Morré, D.J. (1057) 140)

Carcinogen–DNA interaction
Helix perturbation; DNA modification (Fronza, G. (1087) 330)

Monoclonal antibody; DNA conformation (Tada, M. (1090) 29)

Cardiac actin gene
Myogenesis; Gene regulation; (Human gene); (Rat myoblast) (Colledge, W.H. (1087) 39)

Cardiac metabolism
Lactate dehydrogenase; (Antarctic); (Icefish heart) (Feller, G. (1079) 343)

Cardiac muscle
Smooth muscle; Calcium ion transport; ATP; Proteinase (Lyu, R.-M. (1068) 97)

Sodium ion channel; Sodium, intracellular (Albitz, R. (1068) 254)

Cardiac muscle sarcolemma
Hyperthyroidism; Hypothyroidism; Phospholipid fatty acid composition; Phospholipase A_1; Phospholipase A_2; (Rabbit cardiac muscle) (Szymańska, G. (1083) 265)

Cardiac sarcolemma
Calcium ion binding; Glycoprotein; Antigen; Dihydropyridine receptor (Tuana, B.S. (1091) 236)

Cardiac sarcoplasmic reticulum
Hibernation; Calsequestrin; Ryanodine receptor (Milner, R.E. (1063) 120)

Cardiac sodium channel
Sodium ion channel; Patch clamp; Fast inactivation; Inactivation; Proteolytic enzyme (Zilberter, Y.I. (1068) 77)

Cardiac structure
Function; Acidosis; Ischemia; Long-chain acylcarnitine; Carnitine palmitoylcoenzyme A transferase (Hülsmann, W.C. (1097) 263)

Cardiolipin
Phospholipid; Diphosphatidylglycerol; Deoxycardiolipin; Hydrogen bonding; FTIR (Hübner, W. (1066) 166)

Carboxyacyl derivative; Liposome; Proteoliposome; Covalent coupling; Chymotrypsin; Antibody (Niedermann, G. (1070) 401)

Plantacyanin; Copper transfer; Copper thionein; Oxidation; Cytochrome oxidase (Nersissian, A.M. (1076) 337)

Fat deficiency; Fatty acid positional distribution; Palmitoleic acid series; Dihomo-γ-linolenic acid (Wolff, R.L. (1082) 136)

Eukaryotic transcription; Transcription factor; Nuclear extract; Phospholipid; Chlorpromazine; (Ehrlich ascites tumor cell) (Hirai, H. (1088) 191)

Cardiolipin synthase
Thyroid hormone; Thyroxine; Mitochondrion (Hostetler, K.Y. (1086) 139)

Cardiomyocyte
Mitochondrial oxidative phosphorylation; ADP diffusion; ADP compartmentation; Creatine; Creatine kinase system; Energy transport (Saks, V.A. (1074) 302)

Thyroid hormone; Triiodothyronine; Sodium channel; Slow inactivation; Patch clamp (Harris, D.R. (1095) 175)

Thyroxine; Heart hypertrophy; Mitochondrion; ATP synthase; (Rat) (Das, A.M. (1096) 284)

Cardiotoxicity
Anthraquinone; Dantrolene; Excitation–contraction coupling; Ryanodine binding; Calcium release channel (Tian, Q. (1094) 27)

C5a receptor
cyclic AMP-dependent protein kinase; Protein kinase C; 1,25-Dihydroxyvitamin D-3; Prostaglandin E_2 (Rubin, J.E. (1091) 87)

Carnitine
Acylcarnitine; Urinary carnitine; Carnitine homeostasis; (Rat) (Ruff, L.J. (1073) 543)

Carnitine acetyltransferase; Propionate; Pyruvate; Acylcarnitine (Brass, E.P. (1095) 17)

L-Carnitine
Butyrobetaine; Carnitine supplementation (Sandor, A. (1083) 135)

Skeletal muscle; Cell differentiation; Myoblast; Myotube; Fibroblast (Martinuzzi, A. (1095) 217)

Carnitine acetyltransferase
Enzyme characterization; (*S. cerevisiae*) (Kispal, G. (1085) 217)

Carnitine; Propionate; Pyruvate; Acylcarnitine (Brass, E.P. (1095) 17)

Carnitine carrier
Reconstitution; Kinetics; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1065) 231)

Reconstitution; Transport; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1069) 110)

Carnitine homeostasis
Carnitine; Acylcarnitine; Urinary carnitine; (Rat) (Ruff, L.J. (1073) 543)

Carnitine palmitoylcoenzyme A transferase
Cardiac structure; Function; Acidosis; Ischemia; Long-chain acylcarnitine (Hülsmann, W.C. (1097) 263)

Carnitine palmitoyltransferase
Cholate; Malonyl-CoA-binding component; (Rat liver outer mitochondrial membrane) (Ghadiminejad, I. (1083) 166)

Enzyme activation; Malonyl-CoA; (Rat liver) (Ghadiminejad, I. (1085) 377)

Carnitine palmitoyltransferase I
Albumin; Mitochondrion; Rat; Enzyme kinetics; Acyl-CoA binding to albumin (Richards, E.W. (1076) 23)

Carnitine supplementation
Butyrobetaine; L-Carnitine (Sandor, A. (1083) 135)

β-Carotene
Photosynthesis; Photosystem II; Reaction center; Photoinhibition; Primary donor; P680 (Telfer, A. (1060) 106)

β-Lactoglobulin; Modification; Retinoid; Ligand binding (Dufour, E. (1079) 316)

Vitamin E; 15-Lipoxygenase; Prostaglandin synthetase (Lomnitski, L. (1082) 101)

Antioxidant; Lipoprotein; Atherosclerosis; (Human macrophage) (Jialal, I. (1086) 134)

β-Carotene exciton
Photosystem II; Reaction center; Spectroscopy; Charge separation (Newell, W.R. (1057) 232)

Carotenoid
Photosynthesis; Zeaxanthin; Chlorophyll fluorescence; Non-photochemical quenching; pH gradient (Noctor, G. (1057) 320)

Stark effect; Electric field effect; Carotenoid bandshift (Gottfried, D.S. (1059) 76)

Oxygen diffusion; Oxygen concentration; Lipid bilayer; Spin label; EPR (Subczynski, W.K. (1068) 68)

Carotenoid bandshift
Stark effect; Electric field effect; Carotenoid (Gottfried, D.S. (1059) 76)

Carrier
Hexose transport; Transport kinetics; Deuterium oxide; (Rat erythrocyte) (Naftalin, R.J. (1064) 37)

Carrier mobility
Adenine transport; Hypoxanthine transport; Transport kinetics; (Human erythrocyte) (Kraupp, M. (1070) 157)

Cartilage
Sulfotransferase; Chondroitin sulfate; Detergent (Salač, M.L.B. (1074) 130)

Chondrocyte; Extracellular ATP; Purinoceptor (Caswell, A.M. (1074) 151)

Osteoarthritis (Kempson, G.E. (1075) 223)

Cartilage structure
Collagen; Proteoglycan; Intrafibrillar water; Extrafibrillar water (Maroudas, A. (1073) 285)

β-Casein
Antigen–antibody interaction; ELISA; Monoclonal antibody; Peptide–protein interaction; Proteolysis (Kobayashi, T. (1077) 11)

Casein phosphopeptide; Calcium phosphate precipitation; Intestinal protein digestion; NMR, ^{31}P- (Sato, R. (1077) 413)

Casein kinase
Inhibitor; Halogenobenzimidazole; Halogenobenzotriazole; Naphthalene; Isoquinoline; (Maize seedling); (Plant) (Dobrowolska, G. (1080) 221)

Casein kinase II
Amsacrine; Topoisomerase II-DNA complex formation enhancing factor; Nucleus; (Murine mastocytoma cell) (Darkin-Rattray, S.J. (1088) 285)

Gene expression; cDNA; (Mouse); (Pig) (Boldyreff, B. (1088) 439)

Casein phosphopeptide
Calcium phosphate precipitation; Intestinal protein digestion; NMR, ^{31}P-; β-Casein (Sato, R. (1077) 413)

Catabolism
Lysophosphatidylcholine; Perfused heart; Lysophospholipase; Acyl CoA : lysoPC acyltransferase (Mock, T. (1084) 167)

Phosphatidylcholine; Phosphatidylethanolamine; Methylation; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 167)

Phosphatidylcholine; Monomethylethanolamine; Dimethylethanolamine; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 178)

Catalase
Aging; Sexual dimorphism; Superoxide dismutase; Glutathione reductase; Glutathione peroxidase (Rikans, L.E. (1074) 195)

Xanthine dehydrogenase; Xanthine oxidase; Oxygen radical; Type II pneumocyte; (Lung) (Panus, P.C. (1091) 303)

Peroxisomal biogenesis; Zellweger syndrome; Peroxisomal β-oxidation (Wiemer, E.A.C. (1097) 232)

Catalase-peroxidase
Typical catalase; Catalytic activity; (*K. pneumoniae*) (Hochman, A. (1077) 299)

Catalytic activity
4-Aminobutyrate aminotransferase; Lysine residue (Kim, Y.T. (1077) 187)

Catalase-peroxidase; Typical catalase; (*K. pneumoniae*) (Hochman, A. (1077) 299)

Catalytic *c*-heme
Multi-heme *c*-cytochrome; Nitrification; Cytochrome *c* (Hooper, A.B. (1058) 13)

Catalytic hydrogenation
Δ^{12}-Desaturase; Membrane fluidity; Microviscosity; Fatty acid hydrogenation; Linoleic acid; Microsomal membrane; (*C. lipolytica*) (Horváth, I. (1085) 126)

Catalytic mechanism
Phospholipase A_2; Calcium ion binding (Bekkers, A.C.A.P.A. (1076) 374)

Catalytic site
ATP hydrolysis; ATPase, F_1F_0- (Berden, J.A. (1057) 151)

Glutamine synthetase; Spin label; Binding site; (*E. coli*) (Ubom, G.A. (1077) 91)

Horseradish peroxidase; Chemical modification; Histidine (Urrutigoïty, M. (1079) 209)

Catalytic subunit
Calpain I; Autolysis; Calcium concentration; Cleavage site (Zimmerman, U.-J.P. (1078) 192)

Protein phosphatase 2A; GC box; CAT assay; CRE sequence (Kitagawa, Y. (1089) 339)

Catalytic triad
Acrosin; Serine proteinase; Amino acid sequence; Phylogenetic tree (Klemm, U. (1090) 270)

Cataract
Lipid peroxy radical; α-Crystallin; Blue fluorescence; Cross-link; Dityrosine (Kikugawa, K. (1096) 108)

Cataract formation
Fibronectin; Indirect immunoperoxidase staining; Lens transparency; Plasma membrane; Structural protein; (Human lens) (Babizhayev, M.A. (1096) 139)

CAT assay
Protein phosphatase 2A; Catalytic subunit; GC box; CRE sequence (Kitagawa, Y. (1089) 339)

Catastrophic transport
Nucleotide transport; Periodic-catastrophic transport; AMP; Amantadine; Phosphoramidate (Bergstrom, D.E. (1061) 95)

Catecholamine
Chromaffin granule; Nigericin; Ionophore A23187; Osmotic lysis; Chromogranin A (Engel, J. (1064) 155)

Calcium ion; Glucose transport; Insulin; GLUT-4; (Rat heart) (Rattigan, S. (1094) 217)

G protein; Adrenergic receptor (Lomasney, J.W. (1095) 127)

Catecholamine secretion
Calcium influx; Osmotic strength; Nicotinic receptor; Voltage-dependent calcium channel; (Chromaffin-cell) (Heldman, E. (1091) 417)

Catechol-*O*-methyltransferase
Immunoaffinity chromatography; Amino acid sequence, partial; (Pig liver) (Bertocci, B. (1080) 103)

Catfish secretion
Platelet activating factor; Wound healing (Summers, B. (1091) 329)

Cathepsin
Fluorometry; Papain; Cysteine proteinase; Lysosomal enzyme (Tchoupé, J.R. (1076) 149)

Lysosomal proteinase; Differentiation; (Rat keratinocyte) (Tanabe, H. (1094) 281)

Cathepsin D
Peritoneal macrophage; Mannose receptor (Young, P.R. (1095) 1)

Cathepsin E
Leukocyte; Erythrocyte (Yonezawa, S. (1073) 155)

Cation
Neurotransmitter release; Bioenergetics; Exocytosis (McMahon, H.T. (1059) 243)

ATPase, Na^+/K^+-; Phosphatase, K^+-; Magnesium ion; Choline; Conformational change (Robinson, J.D. (1061) 267)

Cation binding
α-Chymotrypsin; Acyl transfer; Charged nucleophile; Electrostatic interaction; Salt effect (Schellenberger, V. (1078) 1)

Cation channel
Voltage-dependent gating; Erythrocyte; Patch clamp (Christophersen, P. (1065) 103)

Charybdotoxin; Vacuolar membrane; Tonoplast; Patch-clamp technique; (*Chenopodium rubrum*) (Weiser, T. (1066) 109)

Potassium channel; Reconstitution; Amiloride; Protein purification; Proteolipid; (Rabbit kidney) (Desir, G.V. (1067) 38)

Cation cycle
Sodium ion transport; Protonmotive force; Bacterial energetics; (*E. coli*) (Dibrov, P.A. (1056) 209)

Cation effect
Harmaline effect; Amino acid transport; System y^+; (Human erythrocyte); (Hagfish erythrocyte) (Young, J.D. (1070) 111)

Cation exchange
Cuticle; Membrane potential; Ionic diffusion ratio (Heredia, A. (1062) 239)

Cationic amino acid transport
Amino acid transport; Macrophage; Lipopolysaccharide (Sato, H. (1069) 46)

Cation permeability
Mitochondrion; Proton permeability; Fatty acid; Respiratory control (Brown, G.C. (1059) 55)

Beta-cell; Depolarization; Cytosolic calcium; HIT-T15 cell; Lactate (Lynch, A.M. (1091) 141)

Cation stabilization
Hemocyanin; Light scattering; Molecular weight; Subunit dissociation; Ionic stabilization; Subunit contact; (*Y. limulata*) (Herskovits, T.T. (1076) 71)

Cation / substrate cotransport
Adenosine; Sodium ion; Proton; (*V. parahaemolyticus*) (Okabe, Y. (1059) 332)

Cation transport
Erythrocyte; Ionic strength; (Sheep) (Erdmann, A. (1061) 85)

Diamide; Glutathione; Ionic strength; (Human erythrocyte) (Ihrig, I. (1069) 171)

Cation transport pathway
Voltage dependence; Sodium pump; ATPase, Na^+/K^+- (Halperin, J.A. (1070) 497)

C57BL / 6 mice
Differential incorporation; Competitive inhibition (Huang, Y.-S. (1082) 319)

CCMV
Plant virus; Virus; TMV; Coat protein; Lipid–protein interaction (Spruijt, R.B. (1065) 217)

CD
Photosynthesis; Reaction center; Picosecond CD; (*Rb. sphaeroides*) (Xie, X. (1057) 131)

1-Palmitoyl-2-oleoylphosphatidylcholine vesicle; Melittin; Electrostatic effect; Potential change; NMR, ^{31}P-; Electrophoretic mobility (Beschiaschvili, G. (1068) 195)

Acylgramicidin; Acylprotein; DMPC; Gramicidin A; Monolayer; NMR; HPLC (Vogt, T.C.B. (1069) 157)

Gramicidin conformation; Phosphatidylcholine; Bilayer; NMR, ^{2}H- (Morrow, M.R. (1070) 209)

CD45
Cell surface protein; Leukocyte proliferation; Protein tyrosine phosphatase (Trowbridge, I.S. (1095) 46)

***CDC25* gene**
cyclic AMP; G-protein; Cell cycle; Growth control (Frascotti, G. (1089) 206)

***cdc2* kinase**
Erbstatin; Tyrphostin; *mpk* kinase; Oocyte maturation (Daya-Makin, M. (1093) 87)

C-domain
Histone H1; Composition; Residue spacing; Conservation; Helicity; Sequence analysis (Maeder, D.L. (1076) 233)

CD4 protein
Chemical crosslinker; HIV; AIDS; Drug delivery (Idziorek, T. (1062) 39)

$C_{12}E_8$
ATPase, H^+/K^+-; Heterodimer; Cross-link; Glycoprotein; Glutaraldehyde; Soluble enzyme; Wheat germ agglutinin; FITC (Hall, K. (1077) 173)

Cell activation
Calcium ion; pH, intracellular; Calcium mobilization; Chemotaxis; (Human neutrophils) (Fonteriz, R.I. (1093) 1)

Cell adhesion molecule
Sponge cell adhesion; Sulfated polysaccharide recognition; (*O. tenuis*) (Parish, C.R. (1073) 56)

L1; Immunoglobulin superfamily; cDNA cloning; (Human neuron) (Kobayashi, M. (1090) 238)

Cell-cell contact
Endogenous apical marker; Polarization; Tumor promotor; (LLC-PK_1) (Van Den Bosch, L. (1092) 244)

Cell coupling
Cornea; Epithelium; Amphotericin B; Conductance; Capacitance; Impedance analysis (Reinach, P.S. (1066) 115)

Cell culture
LHRH; Amplitude; Duration; LH; FSH; Pituitary (Kellom, T.A. (1092) 101)

Cell cycle
Glycolysis; Lymphocyte; Phorbol ester; Concanavalin A (Marjanovic, S. (1087) 1)

DNA synthesis; Proteinase, trypsin-like; (HeLa cell) (Muramatu, M. (1087) 87)

Histone gene expression; Transcriptional control (Heintz, N. (1088) 327)

CDC25 gene; cyclic AMP; G-protein; Growth control (Frascotti, G. (1089) 206)

Cell growth; Interleukin-1 receptor; Immunoglobulin superfamily (Tominaga, S.-i. (1090) 1)

Calcium ion; Calmodulin; Calcium ion concentration, transient; Cytosolic free calcium concentration; DNA replication; Mitosis; Nuclear division (Anraku, Y. (1093) 169)

Protein phosphatase 2A; p34cdc2 (Sola, M.M. (1094) 211)

Nucleic acid metabolism; RNA polymerase activity; (Rat thymocyte) (Schöbitz, B. (1095) 95)

Thymocyte; Thymosin β_4; Cell proliferation; T cell (Schöbitz, B. (1095) 230)

Cell cycle control
DNA repair; Proteolysis; Ribosome assembly; Stress response; Ubiquitin (Jentsch, S. (1089) 127)

Cell damage
ATP depletion; Calcium; Enzyme release; Magnesium; Nickel; (Human fibroblast) (Kristensen, S.R. (1091) 285)

Glucocorticoid; Nitric oxide synthase; Adenocarcinoma cell (O'Connor, K.J. (1097) 227)

Cell deformation
Bleb formation; Electroinduced bleb; DNA transfer; Electro-transformation; Freeze-fracture; (*E. coli* membrane) (Sabelnikov, A.G. (1066) 21)

Cell differentiation
Fatty acid composition; Mucosa; Brush-border membrane; (Pig small intestine) (Alessandri, J.-M. (1086) 340)

Skeletal muscle; Myoblast; Myotube; Fibroblast; L-Carnitine (Martinuzzi, A. (1095) 217)

Cell-free system
Chloroplast biogenesis; Thylakoid biogenesis; Galactolipid; (*S. oleracea*); (*P. sativum*) (Morré, D.J. (1070) 437)

Superoxide; Bilirubin; NADPH oxidase; (Pig neutrophils) (Kwak, J.Y. (1076) 369)

Protein $p21^{ras}$; Acyltransferase (Gutierrez, L. (1078) 147)

Mycolic acid synthesis; Unsaturated mycolic acid; (Mycobacteria) (Lopez-Marin, L.M. (1086) 22)

In vitro replication; Replication origin; Semiconservative replication; Initiation; DNA replication (Pearson, C.E. (1090) 156)

Cell-free translation
Vitreous humor; Rabbit lens; Protein synthesis; Protein synthesis inhibitor (Banerjee, A. (1076) 330)

Cell growth
Cholesterol; Hydroxymethylglutaryl-CoA reductase; Acyl-CoA : cholesteryl acyltransferase; LDL; HDL; (Rat intestine); (IEC-6 cell) (Reimann, F.M. (1085) 315)

Cell cycle; Interleukin-1 receptor; Immunoglobulin superfamily (Tominaga, S.-i. (1090) 1)

FM3A mutant; G258; Oligosaccharide synthesis; Lipid synthesis (Nishikawa, Y. (1091) 135)

Cell injury
Calcium, intracellular; Membrane potential; Photodynamic action; Photosensitization; Zinc phthalocyanine disulfonate (Specht, K.G. (1070) 60)

Cell line
Methionine adenosyltransferase; *S*-Adenosylmethionine; (Human) (Åkerman, K. (1097) 140)

Cell membrane
Electroporation; Liposome binding (Chernomordik, L.V. (1070) 193)

Dexamethasone; Amino acid; Trauma (Hundal, H.S. (1092) 376)

Cell membrane complex
Keratin; Glycoprotein; Hair (Allen, A.K. (1074) 331)

Cell membrane potential
α_2-Adrenoceptor agonist; Clonidine; Epinephrine; Patch clamp; Calcium, intracellular (Weiss, H. (1069) 165)

Potassium channel; Calcium, intracellular; Inositol phosphate; Pertussis toxin; Phorbol ester (Lang, F. (1073) 600)

Cellobiase
Ruminal fungus; Kinetics (Li, X. (1080) 148)

Cellobiohydrolase
Endoglucanase; Monoclonal antibody; Mass spectrometry; (*T. reesei*) (Luderer, M.E.H. (1076) 427)

Cell proliferation
Poly(ADP-ribose) polymerase; Gene expression; Liver regeneration; DNA replication; DNA repair; Protein modification (Cesarone, C.F. (1087) 241)

DNA binding protein; Expression; mRNA level; Protein level (Yaneva, M. (1090) 181)

Cytochrome *c* oxidase; Hepatectomy; (Rat T-lymphocyte) (Otero, A. (1092) 184)

Thymocyte; Thymosin β_4; Cell cycle; T cell (Schöbitz, B. (1095) 230)

Cell protrusion
Actin; Electrical field; Dielectrophoresis (Popov, S.V. (1066) 151)

Cell regulation
Tyrosine protein kinase; *lyn* gene product; Protein phosphorylation; Synthetic peptide; Enzymology (Brunati, A.M. (1091) 123)

Cell retraction
Sulfation; Endocytosis; Signal transduction; Sodium ion/proton antiport (Sit, K.H. (1092) 180)

Cell sorting
Microspore culture; (*Brassica napus*) (Deslauriers, C. (1091) 165)

Cell surface immunochemistry
Planar model membrane; Translational diffusion; Fluorescence microscopy; Fluorescence photobleaching recovery (Timbs, M.M. (1064) 219)

Cell surface oligosaccharide
Oligosaccharide; Chain conformation; Amphiphilic surface; Hydrophobic bonding; Lectin-sugar binding; Antigen–antibody interaction (Sundari, C.S. (1065) 35)

Cell surface protein
CD45; Leukocyte proliferation; Protein tyrosine phosphatase (Trowbridge, I.S. (1095) 46)

Cell transformation
K-fgf proto-oncogene; Metastasis; Gene amplification (Damen, J.E. (1097) 103)

Cell-type-specific transcription
Mating type; Pheromone response; Yeast; (*Saccharomyces cerevisiae*) (Dolan, J.W. (1088) 155)

Cellular anthracycline distribution
Multidrug resistance; Fluorescence anisotropy (Lankelma, J. (1093) 147)

Cellular slime mold
Polymorphism; cyclic AMP-binding protein (Bonfils, C. (1088) 145)

Cellulase antibody
Cellulase cDNA deletion; Cellulolytic yeast; (*S. cerevisiae, T. reesei*) (Aho, S. (1087) 137)

Cellulase cDNA deletion
Cellulolytic yeast; Cellulase antibody; (*S. cerevisiae, T. reesei*) (Aho, S. (1087) 137)

Cellulolytic yeast
Cellulase cDNA deletion; Cellulase antibody; (*S. cerevisiae, T. reesei*) (Aho, S. (1087) 137)

Cell viability
Rifamycin SV; Metal ion; Oxygen free radical; Glutathione; Carbohydrate metabolism; (Rat hepatocyte) (Sáez, G.T. (1092) 325)

Cell volume
Microelectrode; Transmembrane potential; Intracellular potassium ion activity; Hyperosmotic stress; Transference number; Potassium, intracellular; (Mouse liver) (Wang, K. (1069) 187)

Small intestine; Crypt isolation; (Guinea-pig) (O'Brien, J.A. (1070) 501)

Cell volume regulation
K pathway; Taurine transport; Choline transport; Ionic strength; Trout erythrocyte; DIDS (Motais, R. (1075) 169)

Cell wall
NMR, ^{13}C-; Teichoic acid; (*Streptomyces*) (Tul'skaya, E.M. (1074) 237)

Cephalopod
Rhodopsin; Acid metarhodopsin; Photoconversion; Conformational change; X-ray scattering; Chromatofocusing (Hiraki, K. (1077) 355)

Ceramide
Cerebroside; Plasma membrane; (Oat root) (Norberg, P. (1066) 257)

NMR, ^{2}H-; Freeze-fracture; Polymorphism; Stratum corneum lipid; Barrier function; Hexagonal phase (Abraham, W. (1068) 189)

Sphingolipid; Niemann-Pick disease; Sphingolipidose; Protein kinase C; Cholesterol (Koval, M. (1082) 113)

Glucosylceramide; Glucosylceramide glucosidase; Ceramide glucosyltransferase inhibition; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; L-Cycloserine; Sphingolipid hydrolase; Sphingosine biosynthesis inhibition; Kidney (Shukla, G.S. (1083) 101)

Macrophage; Phosphatidylcholine; Phosphatidylethanolamine; Sphingosine (Stein, Y. (1084) 87)

Sphingomyelin; Phosphatidylcholine; Diacylglycerol; Octyl glucoside (Hanada, K. (1086) 151)

Ceramide digalactoside
Ceramide monohexoside; Hydroxy fatty acid; Long-chain base, branched; FABMS; (Sponge); (*H. japonica*) (Hayashi, A. (1083) 179)

Ceramide glucosyltransferase inhibition
Ceramide; Glucosylceramide; Glucosylceramide glucosidase; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; L-Cycloserine; Sphingolipid hydrolase; Sphingosine biosynthesis inhibition; Kidney (Shukla, G.S. (1083) 101)

Ceramide monohexoside
Ceramide digalactoside; Hydroxy fatty acid; Long-chain base, branched; FABMS; (Sponge); (*H. japonica*) (Hayashi, A. (1083) 179)

Cerebral cortex
ATP-dependent proteolysis; Ubiquitin conjugate-preferential proteinase; (Rat) (Okada, M. (1073) 514)

Cerebral glutamine
NMR, ^{15}N-; Hyperammonemia; Portacaval shunt; Hepatic encephalopathy; (Rat brain) (Kanamori, K. (1096) 270)

Cerebrohepatorenal syndrome
Peroxisome; Fatty acid oxidation; Immunoblotting; X-linked adrenoleukodystrophy; (Fibroblast) (Reubsaet, F.A.G. (1083) 305)

Cerebroside
Ceramide; Plasma membrane; (Oat root) (Norberg, P. (1066) 257)

Cerebroside sulfatase
Arylsulfatase A; Arylsulfatase B; Development; Sulfolipid; (Rat brain) (Van der Pal, R.H.M. (1081) 315)

Cerebrotendinous xanthomatosis
Cholestanol feeding; Corneal opacity; Calcium deposit; (Mouse) (Kim, K.S. (1085) 343)

Cervix
Pregnancy; Hyaluronate; Proteoglycan; (Ewe) (Anderson, J.C. (1075) 187)

Cesium
Myogenesis; Myoblast fusion; Cholesterol; Phosphatidylethanolamine; Phosphatidylcholine; Phosphatidylinositol (Santini, M.T. (1070) 27)

Cestode lipid
Glycosphingolipid; Sphingomyelin; HPLC; FABMS (Nishimura, K. (1086) 141)

CF_0-F_1 activation
ATP synthesis; P515; Electrochromism; Proton domain; Chloroplast (Ooms, J.J.J. (1056) 293)

hCG
Protein phosphorylation; Steroidogenesis; cyclic AMP; PMA; (Leydig cell) (Chaudhary, L.R. (1094) 175)

Chain conformation
Oligosaccharide; Amphiphilic surface; Hydrophobic bonding; Lectin-sugar binding; Antigen–antibody interaction; Cell surface oligosaccharide (Sundari, C.S. (1065) 35)

Chain flexibility
EPR; Spin label; Lipid bilayer (Reboiras, M.D. (1063) 259)

Chainlength dependence
Phosphatidylcholine; Phosphatidylethanolamine; Transition temperature; Hexagonal transition (Marsh, D. (1062) 1)

Channel
Antibiotic; Polyene; Selectivity; Permeability; Ionophore (Bonilla-Marín, M. (1061) 65)

Channel blocker
Chloride transport; Anthranilic acid derivative; (Indanyloxy)acetic acid derivative; Membrane vesicle; (Bovine kidney cortex); (Rabbit ileum brush border) (Pope, A.J. (1067) 51)

Channel gating
Pore formation; Peptide–lipid interaction; Melittin; Dioleoylphosphatidylcholine (Pawlak, M. (1062) 94)

Channel kinetics
Acetylcholine receptor; Temperature; Arrhenius plot (Dilger, J.P. (1063) 253)

Channel protein
Ion channel; Glycine receptor; (Rat) (Langosch, D. (1063) 36)

Chaos
Correlation integral; N_{14} profile; Tertiary structure; Structural quantity (Kubota, Y. (1079) 73)

Chaotropic ion
Lipid monolayer; Surface potential; Lateral conductance (Morgan, H. (1062) 149)

Chaperonin protein
Heat shock protein; cDNA sequence; Autoimmunity; GroEL related protein; (Mouse) (Venner, T.J. (1087) 336)

Characterization
Oligosaccharide; Glycoprotein; (*D. melanogaster*) (Williams, P.J. (1075) 146)

Charge displacement current
Bacteriorhodopsin; Purple membrane; Action spectrum; Photoelectric effect (McIntosh, A.R. (1056) 149)

Charged nucleophile
α-Chymotrypsin; Acyl transfer; Electrostatic interaction; Salt effect; Cation binding (Schellenberger, V. (1078) 1)

α-Chymotrypsin; Acyl transfer; Electrostatic interaction; Salt effect (Schellenberger, V. (1078) 8)

Charge recombination
Reaction center; Conformation; Bacteriopheophytin; Quinone; (*Rps. viridis*) (Gao, J.-L. (1056) 259)

Low temperature; Temperature effect; Lipid rigidity; pH; Photosynthesis (Sebban, P. (1057) 109)

P700; Flash absorption spectroscopy; Phylloquinone; Potentiometry; EPR (Bottin, H. (1057) 331)

Atrazine; Herbicide; Unspecific binding; Photoaffinity labeling; Photosystem II concentration (Jursinic, P.A. (1059) 312)

Charge separation
Photosystem II; Reaction center; β-Carotene exciton; Spectroscopy (Newell, W.R. (1057) 232)

Chlorophyll fluorescence; Electrochromic absorption change; Thylakoid potential; Time constant (Dau, H. (1057) 337)

Triplet formation; Radical pair recombination; Intersystem crossing; (*H. chlorum*) (Kleinherenbrink, F.A.M. (1057) 346)

Photosystem II; D_1-D_2-cyt-*b*-559 reaction center; Reaction center kinetics; Picosecond chlorophyll fluorescence; Photosynthesis; Energy transfer (Roelofs, T.A. (1060) 237)

Charge transfer
Electrochromism; Chlorophyll *a* monomer; Special pair; P700; Stark effect (Krawczyk, S. (1056) 64)

Charybdotoxin
Cation channel; Vacuolar membrane; Tonoplast; Patch-clamp technique; (*Chenopodium rubrum*) (Weiser, T. (1066) 109)

Chemical carcinogenesis
Diacylglycerol; Colonic cancer; Malignant transformation; Signal transduction (Wali, R.K. (1092) 119)

Chemical crosslinker
CD4 protein; HIV; AIDS; Drug delivery (Idziorek, T. (1062) 39)

Chemical crosslinking
Topology; Cytochrome b_6f; (Spinach thylakoid) (Shallan, M.A.-A.M. (1057) 64)

Monoclonal antibody; Sarcoplasmic reticulum; Glycoprotein, 53 kDa; Calsequestrin; ATPase, $(Ca^{2+} + Mg^{2+})$- (Burgess, A.J. (1064) 139)

Apolipoprotein-specific HDL; FPLC; Human cord blood; Immunoaffinity chromatography (Nichols, A.V. (1085) 306)

Chemical footprinting
Ribosome; S12 gene; rRNA, 16S (Bonny, C. (1089) 213)

Chemical mechanism
Enzyme kinetics; Kinetic mechanism; pH profile; Chemical modification (Karsten, W.E. (1077) 209)

Chemical modification
Cytochrome *P*-450; Membrane topology; Substrate binding site (Kunz, B.C. (1063) 226)

Diethyl pyrocarbonate; Brush-border membrane transporter; Transport system (Beaumier, B. (1068) 142)

Carbonyl reductase; Aldehyde dismutaion; Chloral hydrate; Kinetic mechanism; (Guinea-pig lung) (Hara, A. (1075) 61)

Lectin; NMR; Nuclear Overhauser effect; Mushroom; (*I. resinosum*) (Kawagishi, H. (1076) 179)

Bacteriorhodopsin; Fluorescamine; Fluorescence; Forster resonance energy transfer; (*H. halobium*) (Sonar, S.M. (1076) 239)

Enzyme kinetics; Kinetic mechanism; Chemical mechanism; pH profile (Karsten, W.E. (1077) 209)

Acetylcholinesterase; Aziridinium ion; Acceleration (Sepp, A. (1077) 407)

Horseradish peroxidase; Catalytic site; Histidine (Urrutigoïty, M. (1079) 209)

HDL; Scavenger receptor; Lysosomal degradation (Miyazaki, A. (1082) 143)

Chemical relaxation
Temperature jump; Association rate; Guanosine 2′-monophosphate; Guanosine 3′-monophosphate (MacKerell Jr., A.D. (1073) 357)

Chemical state
Raman spectroscopy; Ionization state; Methodology (Yue, K.T. (1078) 296)

Chemotactic peptide receptor
N-Formylmethionylleucylphenylalanine; Iodothyronine; Superoxide; (Human neutrophil) (Aoyagi, K. (1093) 223)

Chemotaxis
Calcium ion binding protein; (*B. subtilis*) (Grazia Tozzi, M. (1080) 160)

Lysophosphatidylcholine; Lysophospholipase C; Monocyte; Diacylglycerol (Quinn, M.T. (1082) 293)

Epidermal growth factor; Saliva; (Human oral epithelial cell line) (Royce, L.S. (1092) 401)

Calcium ion; pH, intracellular; Calcium mobilization; Cell activation; (Human neutrophils) (Fonteriz, R.I. (1093) 1)

Neutrophil; Heparin cofactor; Actin polymerization; cyclic AMP (Hoffman, M. (1095) 78)

Chemotherapy
Nucleotide metabolism; Immunodeficiency; HIV (Carson, D.A. (1091) 22)

Chick chondrocyte
Proteoglycan; Type II collagen; Type X collagen; Glutathione; Buthionine sulfoximine (Habuchi, O. (1093) 153)

Chick embryo development
Fibroblast; Fibronectin; Intracellular transport (Botti, J. (1093) 13)

Chief cell
Calcium ion spike; Fura-2; (Canine gastric mucosa) (Tsunoda, Y. (1091) 251)

Chimaera
Lens; MIP; Hereditary cataract; Immunofluorescence; (Mouse) (Shiels, A. (1097) 318)

Chimeric protein
Fusion protein; Cytochrome b_5; Hydrophobic domain; β-Galactosidase; Phosphatidylcholine; Liposome (George, S.K. (1061) 26)

Alcohol dehydrogenase; Protein translocation; Signal sequence; Signal anchor; Zein (Shatters, Jr., R.G. (1068) 179)

Chiral analysis
Arachidonic acid metabolism; Hydroxyicosatetraenoic acid; Lipoxygenase; Phorbol ester; (Mouse skin) (Hughes, M.A. (1081) 347)

Chitinase
N-Acetylglucosaminidase; Chitobiase; (*S. hygroscopicus*) (Irhuma, A. (1074) 1)

Thermostable; (*Bacillus*) (Takayanagi, T. (1078) 404)

Chitobiase
N-Acetylglucosaminidase; Chitinase; (*S. hygroscopicus*) (Irhuma, A. (1074) 1)

Chitosanase
Affinity chromatography; Chitosan degradation; (*N. orientalis*) (Sakai, K. (1079) 65)

Chitosan degradation
Chitosanase; Affinity chromatography; (*N. orientalis*) (Sakai, K. (1079) 65)

Chloral hydrate
Carbonyl reductase; Aldehyde dismutaion; Kinetic mechanism; Chemical modification; (Guinea-pig lung) (Hara, A. (1075) 61)

Chlorambucil
Histone variant; Histone synthesis; S-phase; Hydroxyurea; DNA synthesis; Alkylating agent (Sourlingas, T.G. (1092) 298)

Chloramphenicol acetyltransferase
Transcription system; Transfection; Bacterium; TLC; (Rat liver) (De Maio, A. (1087) 303)

CAP; Gel mobility shift; Transfection (Kihara, F. (1089) 227)

Chloride
Calcium; Manganese; Photosystem II; Oxygen evolution; Polypeptide; EPR multiline signal (Yocum, C.F. (1059) 1)

Ion channel; Calcium ion; SF-9 cell; δ-Endotoxin; Fura-2; (*B. thuringiensis*) (Schwartz, J.-L. (1065) 250)

Thiazide receptor; Sodium; Microsome; Percoll; (Rabbit kidney) (Ellison, D.H. (1069) 241)

Chloride–bicarbonate exchange
Chloride permeability; Basolateral membrane; pH regulation; (Frog skin) (Lacoste, I. (1063) 103)

pH, intracellular; cyclic AMP; (LLC-PK_1 cell) (Harada, H. (1092) 404)

Chloride channel
Sarcoplasmic reticulum; Phosphate transporter (Stefanova, H.I. (1064) 329)

Hypotonic shock; Chloride transport; Potassium ion channel; Regulatory volume decrease (RVD); (Human fibroblast) (Mastrocola, T. (1069) 201)

Cystic fibrosis; Patch clamp; Non-selective cation channel; Nasal epithelium (Jorissen, M. (1096) 52)

Chloride conductance
Membrane potential; Ion exchanger; Sodium chloride symport; Potassium chloride symport; (*R. pipiens*, stomach) (Schwartz, M. (1062) 113)

Chloride deficiency
Acetylcholine; Pancreatic B cell (Hermans, M.P. (1092) 205)

Chloride dependence
Glutamate transport; Cotransport; Sodium dependence; Brush-border membrane vesicle; Hepatopancreas; (*Homarus americanus*) (Balon, L.M. (1067) 123)

Chloride effect
Proton/taurine cotransport; Taurine transport; Sodium ion dependent uptake; (Pars convoluta); (Pars recta); (Rabbit kidney) (Jessen, H. (1064) 189)

Chloride flux
Aldosterone; Amphibian skin; Mitochondria rich cell (Devuyst, O. (1066) 268)

Chloride ion channel
Human keratinocyte; Chloride transport; Anion exchange; Lipoxygenase (Mastrocola, T. (1097) 275)

Chloride permeability
Chloride–bicarbonate exchange; Basolateral membrane; pH regulation; (Frog skin) (Lacoste, I. (1063) 103)

Chloride transport
Anthranilic acid derivative; (Indanyloxy)acetic acid derivative; Membrane vesicle; Channel blocker; (Bovine kidney cortex); (Rabbit ileum brush border) (Pope, A.J. (1067) 51)

HeLa cell; Isotonic; Potassium ion transport; Regulatory volume decrease; Calcium ion (Ikehara, T. (1068) 87)

Hypotonic shock; Chloride channel; Potassium ion channel; Regulatory volume decrease (RVD); (Human fibroblast) (Mastrocola, T. (1069) 201)

Human keratinocyte; Anion exchange; Chloride ion channel; Lipoxygenase (Mastrocola, T. (1097) 275)

***p*-Chloromercuriphenylsulfonate**
Nucleoside transport; Nitrobenzylthioinosine; Dipyridamole; (Hagfish red blood cell) (Fincham, D.A. (1069) 123)

7-Chloro-4-nitrobenzofurazan
ATPase, F_1-; 5′-*p*-Fluorosulfonylbenzoylinosine; Enzyme inactivation (Bullough, D.A. (1057) 208)

Chlorophyll
Triplet state; Photosynthesis (Budil, D.E. (1057) 1)

Photosynthetic unit; Photosystem; Reaction center; Optical cross-section; Antenna; (*Chlorella*) (Greenbaum, N.L. (1057) 195)

Chlorophyll *a*
P700; Photosystem I; Heat stability; (*S. elongatus*); (Spinach) (Ikegami, I. (1059) 275)

Chlorophyll *a*/*b* protein
Photosynthesis; Thylakoid stacking; Photosystem; Lateral heterogeneity; Surface charge (Chow, W.S. (1057) 69)

Chlorophyll *a* monomer
Electrochromism; Special pair; Charge transfer; P700; Stark effect (Krawczyk, S. (1056) 64)

Chlorophyll biosynthesis
Porphobilinogen deaminase; Chloroplast; (*Pisum*) (Spano, A.J. (1076) 29)

Chlorophyll fluorescence
Senescence; Energy transfer; Photosynthesis; Photoacoustic spectroscopy (Gruszecki, W.I. (1056) 173)

Fluorescence induction; Photosystem II heterogeneity; DCMU (Hsu, B.-D. (1056) 285)

Oxygen evolution; Photosystem II; Water splitting; (Inside-out thylakoid) (Delrieu, M.J. (1057) 78)

Photosynthesis; Carotenoid; Zeaxanthin; Non-photochemical quenching; pH gradient (Noctor, G. (1057) 320)

Charge separation; Electrochromic absorption change; Thylakoid potential; Time constant (Dau, H. (1057) 337)

High energy state; Quenching; Fluorescence quenching (Ruban, A.V. (1059) 355)

Fluorescence decay; Energy transfer kinetics; Photosynthesis; Exciton migration; Kinetic model (Beauregard, M. (1060) 271)

Light excitation imbalance; Photoactivity; Light harvesting complex; Light scattering; Membrane aggregation; (Thylakoid membrane); (Photosystem) (Braun, G. (1060) 303)

Chlorophyll-protein complex
Fluorescence; Factor analysis; Principal components analysis; (Pea chloroplast) (Ross, R.T. (1056) 317)

Chloroplast
ATP synthesis; CF_0-F_1 activation; P515; Electrochromism; Proton domain (Ooms, J.J.J. (1056) 293)

ATPase, F_0F_1-; β-Subunit; Beta-subunit; (*E. coli*) (Munn, A.L. (1060) 82)

Protoplast fractionation; Subcellular metabolite distribution; Starch catabolism; (*C. reinhardtii*) (Klöck, G. (1073) 410)

Porphobilinogen deaminase; Chlorophyll biosynthesis; (*Pisum*) (Spano, A.J. (1076) 29)

Chloroplast biogenesis
Thylakoid biogenesis; Galactolipid; Cell-free system; (*S. oleracea*); (*P. sativum*) (Morré, D.J. (1070) 437)

Chloroplast enzyme
Ferredoxin; Photosynthesis (Knaff, D.B. (1056) 93)

Chloroquine
Ferriprotoporphyrin IX; Lipid peroxidation; Antimalaria (Sugioka, Y. (1074) 19)

Chlorosome
Energy transfer; Bacteriochlorophyll; (*C. aurantiacus*); (Time-resolved picosecond spectroscopy) (Miller, M. (1057) 187)

Antenna; Bacterial photosynthesis; Bacteriochlorophyll; Pump-probe spectroscopy; Ultrafast spectroscopy; (*C. aurantiacus*) (Lin, S. (1060) 13)

Electron microscopy; Immunogold labeling; (*Cf. aurantiacus*, *Cb. limicola*, *P. aestuarii*) (Wullink, W. (1060) 97)

Chlorpromazine
Eukaryotic transcription; Transcription factor; Nuclear extract; Phospholipid; Cardiolipin; (Ehrlich ascites tumor cell) (Hirai, H. (1088) 191)

Chlortetracycline
Calcium; Neutrophil; Fluorescence response; Membrane transport (Jacob, J. (1091) 317)

Cholate
Carnitine palmitoyltransferase; Malonyl-CoA-binding component; (Rat liver outer mitochondrial membrane) (Ghadiminejad, I. (1083) 166)

Cholecystokinin
Alkaline phosphatase; Gastric secretion; Bethanecol; (Rat intestine) (Eliakim, R. (1091) 1)

Cholecystokinin-8
Insulin secretion; Priming; GLP-1 (7-36) amide; GIP; Rat pancreas (Fehmann, H.-C. (1091) 356)

Protein synthesis; Pancreatic acinar cell; Carbachol (Perkins, P.S. (1092) 145)

Cholecystokinin internalization
Biotin-streptavidin technology; Amylase secretion; Inositol phosphate; Pancreatic acini; (Rat) (Winand, J. (1080) 181)

Cholecystokinin receptor
Calcium ion mobilization; (Rat pancreatic acini) (Kusui, T. (1094) 231)

Cholera toxin
Ionic channel; Planar bilayer; Lipid membrane (Krasilnikov, O.V. (1067) 166)

Ganglioside G_{M1}; Metabolism (Pacuszka, T. (1083) 153)

Arachidonic acid metabolism; cyclic AMP synthesis; Prostaglandin synthesis; Protein synthesis; (Mouse Chinese hamster ovary cell) (Peterson, J.W. (1092) 79)

Parotid; GTPase; β-Adrenoreceptor; Adenylyl cyclase; G protein; Signal transduction (Hiramatsu, Y. (1092) 391)

Cholera toxin B subunit
Ganglioside GM_1; Interleukin-2; Lymphocyte proliferation (Sharom, F.J. (1094) 35)

Cholera toxin operon
DNA sequence; (*Vibrio cholerae* classical strain 569B); (*Vibrio cholerae El Tor* strain) (Dams, E. (1090) 139)

Cholesta-3,5-dien-7-one
Aldehyde dehydrogenase; Inhibition; Oxysterol (Ryzlak, M.T. (1079) 203)

Cholestanol feeding
Cerebrotendinous xanthomatosis; Corneal opacity; Calcium deposit; (Mouse) (Kim, K.S. (1085) 343)

Cholestasis
Lithocholate; Bile flow; (Rat) (Takikawa, H. (1081) 39)

Cholesterol
Filipin; Lipid bilayer; Conductance (Krawczyk, J. (1063) 60)

NMR, ^{1}H-; Membrane dynamics; Bilayer; Phosphatidylcholine; Spin lattice relaxation time (Han, X. (1063) 129)

Rippled phase; Steric pressure; Hydration pressure (Simon, S.A. (1064) 69)

FTIR; Membrane dynamics; Flexibility gradient; Gramicidin A; Cytochrome *c* (Castresana, J. (1065) 29)

Phosphatidylserine; X-ray diffraction; DSC (Wachtel, E.J. (1066) 63)

Phospholipid; Lindane; Membrane fluidity; Brush-border membrane; Basolateral membrane; (Rat kidney) (Pérez-Albarsanz, M.A. (1066) 124)

Dehydroergosterol; Membrane domain; Erythrocyte; Fluorescence quenching; Fluorescence photobleaching; (Human) (Schroeder, F. (1066) 183)

Cesium; Myogenesis; Myoblast fusion; Phosphatidylethanolamine; Phosphatidylcholine; Phosphatidylinositol (Santini, M.T. (1070) 27)

Calcium concentration, cytosolic free; Platelet activating factor; Monocyte; (U937 cell) (Aepfelbacher, M. (1074) 125)

Lipoprotein clearance; LDL; (Pigeon) (Reagan, Jr., J.W. (1081) 202)

HDL; Phospholipase; Bile acid; (Rat hepatocyte) (Collet, X. (1081) 211)

Cholesteryl linoleyl ether; Acetylated LDL; Littoral cell; (Hamster); (Rat) (Stein, O. (1081) 238)

Probucol; Hepatocyte primary culture; Lipid secretion; Phospholipid; Triacylglycerol (De La Vega, F.M. (1081) 293)

Fish oil; Hepatomegaly; Triacylglycerol synthesis; Glucose-6-phosphate dehydrogenase; Malic enzyme; Diacylglycerol acyltransferase; Insulin; (Rat liver) (Otto, D.A. (1082) 37)

Copper deficiency; Tritiated water; Hypercholesterolemia; (Rat) (Yount, N.Y. (1082) 79)

Sphingolipid; Niemann-Pick disease; Sphingolipidose; Protein kinase C; Ceramide (Koval, M. (1082) 113)

Differentiation; LDL; LDL receptor (Hayashi, K. (1082) 152)

Dietary cholesterol; Plasma triacylglycerol clearance (Quarfordt, S.H. (1082) 247)

Lecithin-cholesterol acyltransferase; Apolipoprotein; Cross-linking; Cholesteryl ester; Gradient gel electrophoresis (Bonomo, E.A. (1082) 265)

HMG-CoA reductase; Staphylococcal epidermolytic toxin; Permeability barrier; Transepidermal water loss (Proksch, E. (1083) 71)

Absorption; Adaptation; Alcohol; Fatty acid; Galactose; Glucose; Hexose (Thomson, A.B.R. (1084) 122)

Bile acid; Estrogen; Progesterone; Hormone (Kushwaha, R.S. (1084) 300)

Fibroblast; Phospholipid; Efflux; HDL (Bielicki, J.K. (1085) 7)

Tritiated water; Development; (Guinea pig) (Yount, N.Y. (1085) 82)

Hydroxymethylglutaryl-CoA reductase; Acyl-CoA:cholesteryl acyltransferase; LDL; HDL; Cell growth; (Rat intestine); (IEC-6 cell) (Reimann, F.M. (1085) 315)

Apolipoprotein E-3; Chylomicron; Diet; (Skin fibroblasts); (Human) (Arnon, R. (1085) 336)

Aminotriazole; 4α-Methyl-5α-cholest-7-en-3β-ol; 4,4-Dimethyl-5α-cholest-8-en-3β-ol; Intermediate; Peroxisome (Hashimoto, F. (1086) 115)

VHDL; Reverse cholesterol transport; (Rabbit) (Nanjee, M.N. (1086) 241)

HDL; Receptor; Retroendocytosis; IEC-6; (Rat intestinal crypt cell) (Rogler, G. (1095) 30)

Diabetes; HMG-CoA reductase inhibitor; Hyperlipidemia; Lipoprotein (Arbeeny, C.M. (1096) 238)

Cytokine; Fibrinogen; HepG2 cell; (Human monocyte) (Lane, A. (1097) 161)

Cholesterol biosynthesis
Cytochrome *P*-450; Coenzyme A reductase; (Prokaryote) (Serizawa, N. (1084) 35)

Cholesterol diet
Hepatic lipase; Lipase; Cholesteryl ester transfer protein; (Rabbit) (Warren, R.J. (1086) 354)

Cholesterol efflux
LDL; HDL receptor; (Human cell line EAhy 926) (Bernini, F. (1083) 94)

Cholesterol esterase
Diurnal variation; (Rat liver) (Martinez, M.J. (1085) 106)

Cholesterol ester hydrolase
Hormone-sensitive lipase; Mammary tissue; Protein phosphorylation (Small, C.A. (1082) 251)

Cholesterol-feeding
Hypercholesterolemia; Hypertriglyceridemia; Apolipoprotein (Quig, D.W. (1083) 257)

Cholesterol gallstone
Fibronectin; Nucleation time; Vesicle (Chijiiwa, K. (1086) 44)

Cholesterol metabolism
Simvastatin; Lipoprotein secretion; (Rat hepatocyte) (Ribeiro, A. (1086) 279)

Cholesterol nucleation time
Biliary lipid–protein association; (Human bile) (Corradini, S.G. (1086) 125)

Cholesterol–phosphatidylcholine interaction
Sterol exchange; Sphingomyelin; Synthetic phospholipid; Hydrogen bond; Phosphatidylcholine bilayer (Kan, C.-C. (1066) 95)

Cholesterol / phosphatidylcholine liposome
Smooth muscle cell; Intracellular calcium; ATPase, ($Ca^{2+} + Mg^{2+}$) (Zhou, Q. (1085) 1)

Cholesterol synthesis
Hypercholesterolemia; LDL; Simvastatin; Pravastatin (Owens, D. (1082) 303)

HMG-CoA reductase; Perinatal liver development (Haave, N.C. (1085) 35)

cyclic AMP; Protein kinase; Glycogen metabolism; Fatty acid synthesis (Cohen, P. (1094) 292)

Cholesterol transfer protein
Brush-border membrane; (Small intestine) (Thurnhofer, H. (1064) 275)

Cholesterol transport
Lipoprotein transport; LDL; LDL receptor; Brain; (Hamster) (Malavolti, M. (1081) 106)

Reverse cholesterol transport; HDL; Surface transfer; Plasma membrane (Johnson, W.J. (1085) 273)

HDL; Reverse cholesterol transport; Apolipoprotein A-I; Apolipoprotein A-II; (Mouse macrophage) (Von Hodenberg, E. (1086) 173)

Cholesterol uptake
HDL subfraction; Corticosteroid synthesis; (Rat adrenal cell) (Hammami, M. (1094) 153)

Cholesteryl ester
Lipid emulsion; HDL; Transfer protein; Phosphatidylcholine; Retinyl ester; (Rat); (Rabbit) (Martins, I.J. (1081) 328)

Phospholipid; Arteriosclerosis; Macrophage (Stein, O. (1082) 33)

Lecithin-cholesterol acyltransferase; Apolipoprotein; Cross-linking; Cholesterol; Gradient gel electrophoresis (Bonomo, E.A. (1082) 265)

Non-esterified fatty acid; HDL; LDL; Cholesteryl ester transfer protein (Lagrost, L. (1085) 209)

Cholesteryl ester accumulation
High affinity heparin-LDL complex; Lipoprotein metabolism; Heparin; (Mouse peritoneal macrophage) (Srinivasan, S.R. (1081) 188)

Cholesteryl ester metabolism
Chylomicron; Lipoprotein remnant; Triacylglycerol metabolism; Plasma cholesterol; LDL receptor; Lipoprotein lipase; WHHL; (Rabbit) (Mamo, J.C.L. (1081) 241)

Cholesteryl ester transfer protein
Lipid transfer protein; Apolipoprotein; Pyrene cholesteryl ester; Fluorescence; (Human plasma) (Milner, T.G. (1082) 71)

HDL; Non-esterified fatty acid; (Human) (Lagrost, L. (1082) 204)

Non-esterified fatty acid; HDL; Cholesteryl ester; LDL (Lagrost, L. (1085) 209)

Hepatic lipase; Lipase; Cholesterol diet; (Rabbit) (Warren, R.J. (1086) 354)

Cholesteryl linoleyl ether
Cholesterol; Acetylated LDL; Littoral cell; (Hamster); (Rat) (Stein, O. (1081) 238)

Choline
ATPase, Na^+/K^+-; Phosphatase, K^+-; Cation; Magnesium ion; Conformational change (Robinson, J.D. (1061) 267)

High affinity transport; Hemicholinium-3; Monoclonal antibody; Purification; Synaptic plasma membrane (Knipper, M. (1065) 107)

ATPase, Na^+/K^+-; Phosphatase, K^+-; Dimethyl sulfoxide; Oligomycin; Sodium ion; Potassium occlusion (Robinson, J.D. (1069) 281)

Lipid metabolism; Ethanolamine; NMR, ^{31}P-; NMR, ^{13}C-; T47D; Spheroid (Ronen, S.M. (1095) 5)

Choline glycerolipid synthesis
Cytidyltransferase; Enzyme translocation; (Krebs-II ascite cell) (Tercé, F. (1084) 69)

Cholinergic
Islets of Langerhans; Insulin secretion; Protein kinase C (Persaud, S.J. (1091) 120)

Cholinergic synaptosome
ATP compartmentalization; (*Torpedo*) (Solsona, C. (1095) 57)

Choline transfer reaction
sn-Glycero-3-phosphate; Duchenne muscular dystrophy; (Rat liver sub-cellular fraction) (Thompson, W. (1083) 207)

Choline transport
K pathway; Taurine transport; Cell volume regulation; Ionic strength; Trout erythrocyte; DIDS (Motais, R. (1075) 169)

Chondrocyte
Cartilage; Extracellular ATP; Purinoceptor (Caswell, A.M. (1074) 151)

Chondroitin sulfate
Sulfotransferase; Detergent; Cartilage (Salač, M.L.B. (1074) 130)

Chondroitin 6-sulfate
Apolipoprotein B-100; Lipoprotein; Atherosclerosis (Olsson, U. (1097) 37)

Chorionic villi
Glucose-6-phosphatase; Microsome; (Human placenta) (Barash, V. (1073) 161)

Chromaffin cell
Fura-2; Lead ion influx; Calcium ion channel; Voltage dependence; Dihydropyridine sensitivity (Tomsig, J.L. (1069) 197)

Chromaffin granule
Nigericin; Ionophore A23187; Osmotic lysis; Catecholamine; Chromogranin A (Engel, J. (1064) 155)

Adrenal medulla; cDNA sequence; Neuroendocrine protein (Bauer, J.W. (1089) 124)

Chromatin
Solubility; Nucleus; Decondensation; (Rat thymocyte) (Engelhardt, M. (1087) 173)

Histone; DNA methylation (Caiafa, P. (1090) 38)

Chromatin binding
Glucocorticoid receptor; DNA binding; Negative regulation; Heat shock protein; Transcriptional synergism (Muller, M. (1088) 171)

Chromatin structure
cis-Diamminedichloroplatinum (II); HMG proteins 1 and 2 (Hayes, J.J. (1088) 413)

DNA intercalator; Ethidium bromide; DNAase I-hypersensitive site, β^A-Globin gene; β^A-Globin gene; (Chicken erythrocyte) (Zhu, J.-d. (1089) 158)

cis-Diamminedichloroplatinum (II); Nucleosome; LMG protein (Hayes, J. (1089) 377)

Chromatofocusing
Rhodopsin; Acid metarhodopsin; Photoconversion; Conformational change; Cephalopod; X-ray scattering (Hiraki, K. (1077) 355)

Chromatography
Liposome; Complement; Blood protein (Chonn, A. (1070) 215)

Chromatophore
Langmuir-Blodgett film; Bacterial reaction center; Photosynthetic bacterium; Linear dichroism; (*Rps. viridis*) (Alegria, G. (1057) 258)

Photophosphorylation; Adenylate kinase; NMR, ^{31}P-; ATPase, H^+-; (*C. vinosum*, *C. tepidum*) (Nozawa, T. (1060) 189)

Chromogenic substrate
Proteinase inhibitor; Metal chelate chromatography; Affinity chromatography (Amarant, T. (1079) 214)

Chromogranin A
Chromaffin granule; Nigericin; Ionophore A23187; Osmotic lysis; Catecholamine (Engel, J. (1064) 155)

Chromophore
Bacteriorhodopsin; Conformational change; Purple membrane (Swords, N.A. (1070) 313)

Chromosomal location
Tetracycline-resistance determinant; Replication origin; Multiple integration; (Bacillus) (Amano, H. (1088) 251)

Chromosomal translocation
Hematopoiesis; Membrane protein; Phosphorylation site (Hromas, R. (1090) 241)

Chronic myelogenous leukemia
Protein kinase C; Erythrocyte membrane; Protein phosphorylation (Kundu, M. (1096) 205)

Chronic renal failure
Plasma; Urine; NMR; Betaine; Trimethylamine *N*-oxide; Lactate; Ammonium ion (Bell, J.D. (1096) 101)

Chylomicron
Arachidonic acid; Docosahexaenoic acid; Icosapentanoic acid; Hepatic lipase; Lipoprotein lipase (Melin, T. (1075) 259)

Lipoprotein remnant; Triacylglycerol metabolism; Cholesteryl ester metabolism; Plasma cholesterol; LDL receptor; Lipoprotein lipase; WHHL; (Rabbit) (Mamo, J.C.L. (1081) 241)

Apolipoprotein E-3; Cholesterol; Diet; (Skin fibroblasts); (Human) (Arnon, R. (1085) 336)

Chylomicron remnant
Hep G2; LDL; LDL receptor; Compactin; Mevalonolactone (Chen, Q. (1083) 173)

Chymotrypsin
Carboxyacyl derivative; Cardiolipin; Liposome; Proteoliposome; Covalent coupling; Antibody (Niedermann, G. (1070) 401)

Kinetic specificity; Collagenolysis; Kinetic salt effect; Amino acid sequence; (Shrimp) (Tsai, I.-H. (1080) 59)

α-Chymotrypsin
Acyl transfer; Charged nucleophile; Electrostatic interaction; Salt effect; Cation binding (Schellenberger, V. (1078) 1)

Acyl transfer; Charged nucleophile; Electrostatic interaction; Salt effect (Schellenberger, V. (1078) 8)

Circadian rhythm
NMR, ^{31}P-; pH, intracellular; Metabolite concentration; (*N. crassa*) (Pilatus, U. (1091) 349)

Circuit analysis
Cultured renal cell line (A6); Specific membrane conductance; Membrane conductance; Voltage dependence; Microelectrode (Granitzer, M. (1069) 87)

Circular dichroism
Cytochrome *b*; Sequence analysis; Protein modelling; Membrane protein (Degli Esposti, M. (1056) 243)

SMS 201–995; Somatostatin analog; Fluorescence spectroscopy; NMR, ^{2}H-; Phospholipid headgroup (Beschiaschvili, G. (1061) 78)

Melittin; Triton X-100; Membrane pore; Divalent cation; Electrorotation; Energy transfer (Alder, G.M. (1061) 111)

Amphipathic α-helical peptide; Lipid–peptide interaction; Tryptophan fluorescence; Liposome; α-Aminomyristic acid (Kato, T. (1063) 191)

Botulinum neurotoxin; Derivative spectroscopy; (*C. botulinum*); (*C. butyricum*) (Singh, B.R. (1077) 119)

Interleukin-2; Molten globule; Fluorescence (Dryden, D. (1078) 94)

Protein folding; Fluorescence; FPLC; Cysteine proteinase inhibitor; Stefin A (Žerovnik, E. (1078) 313)

Circular dichroism spectroscopy
Glucosamine-6-phosphate deaminase; Secondary structure prediction (Altamirano, M.M. (1076) 266)

Circulation time
Liposome; Poly(ethylene glycol); Targeted drug delivery; Drug targeting; Ganglioside (Klibanov, A.L. (1062) 142)

Circumsporozoite protein
Immunogold electron microscopy; Lipid A; Liposome; Macrophage; Phagocytosis; Electron microscopy; Liposomal malaria antigen (Verma, J.N. (1066) 229)

Cisplatin
Radical formation; Radiation damage; Electron paramagnetic resonance; (Chinese hamster ovary cell line) (Halpern, H.J. (1093) 121)

Citrate synthase
Enzyme activation; Spermine; Citric acid cycle; Polyamine (Yoshino, M. (1073) 200)

Citric acid cycle
Citrate synthase; Enzyme activation; Spermine; Polyamine (Yoshino, M. (1073) 200)

Triacylglycerol; Ketone body synthesis; Fatty acid esterification; (Rat hepatocyte) (Henly, D.C. (1092) 277)

L-Citrulline
L-Arginine; L-Ornithine; Polyamine; (Rat enterocyte) (Blachier, F. (1092) 304)

Class of origin
DNA replication initiation; Mammalian DNA replication; Replication origin; Autonomously replicating sequence; Early activated origin (Landry, S. (1088) 234)

Clathrin
Membrane fusion; Fusion process; Fusion lag; Liposome (Maezawa, S. (1070) 429)

Cleavable presequence
Cytochrome *c* oxidase; Subunit IV; cDNA; Nucleotide sequence; Mitochondrion; (*Dictyostelium discoideum*) (Rizzuto, R. (1090) 125)

Cleavage site
Calpain I; Catalytic subunit; Autolysis; Calcium concentration (Zimmerman, U.-J.P. (1078) 192)

Pyridine nucleotide transhydrogenase; (*E. coli*) (Tong, R.C.W. (1080) 19)

Clofibrate
Peroxisome; Peroxisomal membrane; Integral membrane polypeptide; Monoclonal antibody; (Rat liver) (Imanaka, T. (1062) 264)

Peroxisome proliferation; (Mouse liver) (Klucis, E. (1074) 294)

Peroxisomal β-oxidation; Beta oxidation, peroxisomal; Docosahexaenoic acid; Icosapentaenoic acid; Phospholipid; (Rat. *hepatocyte)* (Grønn, M. (1081) 85)

Fatty acid elongation; Fatty acid desaturation; Arachidonic acid; Icosapentaenoic acid; (Rat liver) (Mimouni, V. (1086) 349)

Clonal selection
Direct repeat; Heteroduplex; Complementary palindrome; Somatic mutation; V-gene (Rogozin, I.B. (1089) 175)

Clone 9 cell
Glucose transport; Thyroid hormone, T_3; GLUT-1; GLUT-1 mRNA; Cytochalasin B (Kuruvilla, A.K. (1094) 300)

Clonidine
α_2-Adrenoceptor agonist; Epinephrine; Patch clamp; Calcium, intracellular; Cell membrane potential (Weiss, H. (1069) 165)

Cloning
Lactate dehydrogenase gene; Human; Gene expression; (*B. stearothermophilus*) (Barstow, D.A. (1087) 73)

Pregnancy zone protein; DNA sequence; (Human) (Devriendt, K. (1088) 95)

Amidase gene; Gene expression; (*Rhodococcus*); (*E. coli*) (Hashimoto, Y. (1088) 225)

Mitochondrial RNA processing RNA; Transcription; RNA polymerase III; (Human) (Yuan, Y. (1089) 33)

Site-directed mutagenesis; Recombinant DNA; Protein folding; Interface catalysis (Ernst, E.G. (1089) 331)

Cloud point
Triton X-100 micelle; Phase separation; Osmotic stress; Poly(ethylene glycol) (Yamazaki, M. (1063) 175)

c-*myb*
Differentiation; Myelomonocyte; Granulocyte colony stimulation factor; Maturation (Yanagisawa, H. (1088) 380)

Coagulating gland
Transglutaminase; Glycosylphosphatidylinositol anchor; GTP affinity; (Rat) (Seitz, J. (1078) 139)

CoA-independent transacylase
Arachidonic acid metabolism; Phospholipase A_2; Alkyl phospholipid; U937 cell (Winkler, J.D. (1081) 339)

Coat protein
Plant virus; Virus; TMV; CCMV; Lipid–protein interaction (Spruijt, R.B. (1065) 217)

Cobalamin
Intrinsic factor receptor; Intrinsic factor; Radioisotopic assay; (Pig ileum) (Guéant, J.L. (1073) 614)

Vitamin B-12; Uptake; Accumulation; Coenzyme; Intracellular binding (Watanabe, F. (1075) 36)

Cobalt
Protoporphyrin; Induction; Heme oxygenase (Smith, T.J. (1073) 221)

Cobaltous ion
Ribulose-1,5-bisphosphate carboxylase; Rubisco; Intermediate; EPR; Optical absorption (Janson, K. (1080) 40)

Codon usage
Mistranslation; Protein synthesis; Amino acid starvation (Ulrich, A.K. (1089) 362)

Coenzyme
Vitamin B-12; Cobalamin; Uptake; Accumulation; Intracellular binding (Watanabe, F. (1075) 36)

Coenzyme A
Mitochondrion; Transport; (Rat heart) (Tahiliani, A.G. (1067) 29)

Coenzyme A modification
Mitochondrial protein; Protein modification; Acetyl-CoA acetyltransferase; (Rat liver) (Huth, W. (1077) 1)

Coenzyme A reductase
Gene amplification; Transcription suppression; Gene localization; (CR200 cells) (Hasumi, K. (1083) 289)

Cytochrome *P*-450; Cholesterol biosynthesis; (Prokaryote) (Serizawa, N. (1084) 35)

Coenzyme F_{420}
Methylenetetrahydromethanopterin dehydrogenase; 5,6,7,8-Tetrahydromethanopterin; Deazaflavin; Methanogenesis; (*M. thermoautotrophicum*) (Te Brömmelstroet, B.W. (1073) 77)

Methylenetetrahydromethanopterin dehydrogenase; Methylenetetrahydromethanopterin reductase; 5,6,7,8-Tetrahydromethanopterin; (*M. barkeri*) (Te Brömmelstroet, B.W.J. (1079) 293)

Coenzyme Q homolog
Rabbit liver; Growth; Intracellular distribution (Matsura, T. (1083) 277)

Coenzyme specificity
Glutamate dehydrogenase; Enzyme evolution; Primary sequence; Sequence comparison (Lilley, K.S. (1080) 191)

Cofactor F_{430}
Mass spectrometry; EPR; (*M. thermoautotrophicum*) (Hamilton, C.L. (1074) 312)

Colchicine
Tubulin; NMR, ^{13}C- (Osei, A.A. (1078) 339)

Phospholipid biosynthesis; Cytochalasin; Calcium; EGTA; Verapamil; Digitonin-permeabilization; Rat glioma cell (George, T.P. (1084) 185)

Cold-adapted teleost
Hemoglobin; Antarctica; Primary structure; Oxygen binding (Caruso, C. (1078) 273)

Cold inactivation
ATPase; Vacuolar ATPase; Pyrophosphatase; Immunoreactivity; Proton transport; (*A. acetabulum*) (Ikeda, M. (1070) 77)

Cold tolerance
Antifreeze protein; Insect antifreeze; Thermal hysteresis protein (Wu, D.W. (1076) 416)

Coleoptile
Auxin; Membrane potential; Membrane current; (*Zea mays*) (Felle, H. (1064) 199)

Colipase
Procolipase; Trypsin activation; Lipase; Bile salt; Lipase binding (Larsson, A. (1083) 283)

Collagen
Proteoglycan; Cartilage structure; Intrafibrillar water; Extrafibrillar water (Maroudas, A. (1073) 285)

X-ray diffraction; Aging (James, V.J. (1078) 19)

Glycation; Intervertebral disc; Aging; Human (Hormel, S.E. (1078) 243)

Gene expression; Glucocorticoid; Steroid receptor; Dexamethasone; (Heart); (Tendon) (Oikarinen, A. (1089) 40)

Gene expression; mRNA; recombinant DNA; (Mouse) (Metsäranta, M. (1089) 241)

TGF-β; Procollagen; Fibroblast; Collagen synthesis; Collagen degradation; Growth factor (McAnulty, R.J. (1091) 231)

Nonenzymatic glycation; Sex steroid (Reiser, K.M. (1097) 55)

Collagenase
Metalloproteinase inhibitor; Angiogenic factor; Tissue inhibitor (McLaughlin, B. (1073) 295)

Collagenase inhibitor
Tumor invasion; Metalloproteinase; Zymography; (Epithelial cell) (Whitelock, J.M. (1073) 107)

Collagenase IV
Metalloproteinase; TIMP-2 (Craig, F.M. (1074) 243)

Collagenase, type IV
Gelatinase; Tissue inhibitor; Metalloproteinase; Interleukin-1; Tumor necrosis factor α; (Rabbit); (Articular chondrocyte) (Lefebvre, V. (1094) 8)

Collagen binding protein
Phosphorylation; Myoblast (Cates, G.A. (1073) 521)

Collagen degradation
TGF-β; Procollagen; Collagen; Fibroblast; Collagen synthesis; Growth factor (McAnulty, R.J. (1091) 231)

Collagen-like complement protein
Extracellular processing; Proteinase, pN-; Dermatosparaxis; C1q (Yonemasu, K. (1096) 47)

Collagenolysis
Chymotrypsin; Kinetic specificity; Kinetic salt effect; Amino acid sequence; (Shrimp) (Tsai, I.-H. (1080) 59)

Collagen stimulation
Lysophospholipid formation; Icosanoid dependency; (Human platelet) (Thomas, L.M. (1081) 92)

Collagen synthesis
Prolyl hydroxylase; One-dimensional diffusion (De Jong, L. (1079) 103)

TGF-β; Procollagen; Collagen; Fibroblast; Collagen degradation; Growth factor (McAnulty, R.J. (1091) 231)

Colloidal gold
Liposome; Silver enhancement; Light microscopy; (Mouse) (Huang, S.K. (1069) 117)

Colloid-osmotic lysis
Erythrocyte membrane; Oxidative modification; Diamide; Electroporation; Leakage; Phloretin (Deuticke, B. (1067) 111)

Colocin, 1 and 2
Asparin, 1 and 2; Bryodin-L; Lychnin; Mapalmin; PAP-R; Ribosome-inactivating protein; RNA *N*-glycosidase (Bolognesi, A. (1087) 293)

Colonic cancer
Diacylglycerol; Chemical carcinogenesis; Malignant transformation; Signal transduction (Wali, R.K. (1092) 119)

Colonic mucosal metabolism
13-Hydroxyoctadecadienoate; Oxidized linoleate; 13-Hydroxyoctadecadienoate dehydrogenase (Earles, S.M. (1081) 174)

Colostrum, bovine
Oligosaccharide, neutral; α-D-GalNAc unit; Carbohydrate structure; NMR, ^{13}C- (Urashima, T. (1073) 225)

Combined lipase deficiency
Hepatic triacylglycerol lipase; cDNA sequence; (Mouse) (Oka, K. (1089) 13)

Compactin
Hep G2; Chylomicron remnant; LDL; LDL receptor; Mevalonolactone (Chen, Q. (1083) 173)

Compartmentalization
Malate; NMR, ^{13}C-; Phospho*enol*pyruvate carboxylase; (*Zea mays L.*) (Chang, K. (1092) 29)

Competitive inhibition
C57BL/6 mice; Differential incorporation (Huang, Y.-S. (1082) 319)

Complement
Liposome; Chromatography; Blood protein (Chonn, A. (1070) 215)

Decay-accelerating factor; Urine (Nakano, Y. (1074) 326)

Complementary DNA
Medium-chain acyl CoA dehydrogenase; (Rat liver) (Inagaki, T. (1077) 285)

Complementary palindrome
Direct repeat; Heteroduplex; Somatic mutation; V-gene; Clonal selection (Rogozin, I.B. (1089) 175)

Complement fragment C5a
Mac-1; Inositol phosphate; Protein kinase C; (Monocyte) (Monk, P.N. (1092) 251)

Complex I
NADH:ubiquinone reductase; DNA sequence; (*Neurospora crassa*) (Nehls, U. (1088) 325)

NADH:ubiquinone reductase; Mitochondrion; Sequence; Electron transfer; (*Neurospora crassa*) (Weidner, U. (1089) 391)

NADH:ubiquinone reductase; NAD(H)-binding site; FMN-binding site; Iron-sulfur cluster; (*Neurospora crassa*) (Preis, D. (1090) 133)

Composition
Histone H1; C-domain; Residue spacing; Conservation; Helicity; Sequence analysis (Maeder, D.L. (1076) 233)

Compound 48/80
Protein phosphorylation; Estradiol; Corpus luteum; Polymyxin B (Steinschneider, A. (1093) 102)

Computer simulation
Lipid monolayer; Phosphatidylcholine; Phospholipase A_2; Gel phase; Line defect; Theoretical model (Pink, D.A. (1065) 167)

Membrane vesicle; Cotransport model; Rapid filtration technique (Andrietti, F. (1067) 103)

Acetylcholinesterase; Quasi-equilibrium; Dissociation constant; Juxtaposal modulatory site (Salih, E. (1073) 183)

Polyunsaturated acyl chain; Docosahexaenoyl chain; Conformational property; Equilibrium flexibility; Monte Carlo method (Rabinovich, A.L. (1085) 53)

Concanavalin A
Proteoliposome; D-Glucose; Permeability; Thermotropic properties (Francis, S.E. (1062) 117)

Sperm; Antigen; Membrane antigen; Lectin; Wheat germ agglutinin; Agglutinin; (Goat) (Sarkar, M. (1070) 198)

Agglutination; Deformability; Lectin; Erythrocyte membrane; (Human erythrocyte) (Pestonjamasp, K.N. (1073) 341)

Glycolysis; Lymphocyte; Phorbol ester; Cell cycle (Marjanovic, S. (1087) 1)

Concanavalin A receptor
Platelet; GP IIb–IIIa; G protein; Signal transduction (Torti, M. (1070) 20)

Conditioned medium
Blood-brain barrier; Brain microvessel endothelial cell; Glucose uptake; Astroglial cell; Glucose transporter (Takakura, Y. (1070) 11)

Hepatocyte; DNA synthesis; Growth factor; Secretion (Skouteris, G.G. (1095) 169)

Conductance
Filipin; Lipid bilayer; Cholesterol (Krawczyk, J. (1063) 60)

Surfactin; Ion channel; Lipid bilayer; Selectivity; (*B. subtilis*) (Sheppard, J.D. (1064) 13)

Alamethicin analog; Peptaibol; Ion channel; Lipid bilayer (Molle, G. (1064) 365)

Cornea; Epithelium; Amphotericin B; Capacitance; Impedance analysis; Cell coupling (Reinach, P.S. (1066) 115)

Conductance level
Sarcoplasmic reticulum; Bilayer; Potassium ion channel; Barium ion blockage; Microsome; (Canine aorta) (Bezprozvanny, I.B. (1064) 75)

Confocal laser scanning microscopy
Pore size; Perforin pore; Fluorescence microphotolysis (Sauer, H. (1063) 137)

Confocal microscopy
Fluorescence; Imaging; Exocytosis; Hormone release; Mast cell (Kawasaki, Y. (1067) 71)

Conformation
Reaction center; Charge recombination; Bacteriopheophytin; Quinone; (*Rps. viridis*) (Gao, J.-L. (1056) 259)

Calmodulin; Spin label; EPR (Yacko, M.A. (1064) 7)

Trichopolyn I; Hypelcin A; Phosphatidylcholine bilayer; Permeability; Orientation (Matsuzaki, K. (1070) 419)

Ovomucoid; Egg-white trypsin inhibitor; Structural domain; Equilibrium studies; Kinetic studies; Protein denaturation (Das, B.K. (1076) 343)

β-Lactoglobulin; Trypsin hydrolysis; (Bovine) (Chobert, J.-M. (1077) 31)

Dimethyl sulfoxide; Infrared spectroscopy; Protein denaturation (Jackson, M. (1078) 231)

Butyrylcholinesterase; Tubocurarine; Inhibition; Stopped-flow; Modeling (Stojan, J. (1079) 96)

PAF agonist; PAF antagonist; Electrostatic map, three-dimensional; Synthesis (Lamotte-Brasseur, J. (1085) 91)

Conformational change
ATPase, Na^+/K^+-; Phosphatase, K^+-; Cation; Magnesium ion; Choline (Robinson, J.D. (1061) 267)

ATPase, Na^+/K^+-; Reaction sequence; Oligomycin; Sodium ion; Potassium ion; Ion transport (Pratap, P.R. (1069) 288)

Bacteriorhodopsin; Chromophore; Purple membrane (Swords, N.A. (1070) 313)

Rhodopsin; Acid metarhodopsin; Photoconversion; Cephalopod; X-ray scattering; Chromatofocusing (Hiraki, K. (1077) 355)

Adenylic acid; Alkaline earth; FTIR; NMR, ^{1}H-; X-ray diffraction (Tajmir-Riahi, H.-A. (1087) 49)

Conformational energy
Platelet-type von Willebrand disease; Platelet aggregation; Peptide segment; GPIbα protein; Von Willebrand factor; Amphipathic structure (Pincus, M.R. (1097) 133)

Conformational property
Polyunsaturated acyl chain; Docosahexaenoyl chain; Equilibrium flexibility; Computer simulation; Monte Carlo method (Rabinovich, A.L. (1085) 53)

Conformation analysis
NMR; Electrochemical reduction; Nicotinamide adenine nucleotide (Ragg, E. (1076) 49)

Conformation by NMR
Pentafluorophenylalanine; Angiotensin II; Receptor mechanism (Bovy, P.R. (1079) 23)

Conformer population
Carbonyl hemoglobin; Carbonyl myoglobin; Freeze-concentration; (Infrared spectroscopy) (Astl, G. (1080) 155)

Conformer state
Polypeptide; Harmonic force field; Model size (Balázs, A. (1077) 127)

Conjugated diene
Lipid oxidation; Sphingomyelin; *tert*-Butyl hydroperoxide; Lipid bilayer; NMR, ^{1}H-; Infrared; Fluorescence (Lamba, O.P. (1081) 181)

Connective tissue breakdown
TGF-β; TIMP; Fibroblast; In vitro (Wright, J.K. (1094) 207)

Connexin 43
Phorbol ester; Phosphorylation (Oh, S.Y. (1094) 243)

Conservation
Histone H1; C-domain; Composition; Residue spacing; Helicity; Sequence analysis (Maeder, D.L. (1076) 233)

Contact site
ATP/ADP translocator; Mitochondrial membrane; Freeze-fracture; ADP (Bücheler, K. (1056) 233)

Contraction
Hepoxilin A_3 conjugate; Glutathione *S*-transferase; γ-Glutamyltranspeptidase; Aorta; Hypertension; (Blood vessel); (Rat) (Laneuville, O. (1084) 60)

Conversion
Isomer; *trans* Double bond; Hydrogenation; Linoleic acid; Metabolism; (Mice) (Beyers, E.C. (1082) 275)

Cooperative interaction
Amino acid sequence; 7-Methylguanine; Spectroscopic study; mRNA cap structure; Cap binding protein (IF-4E) (Ueda, H. (1075) 181)

Cooperativity
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Glycoprotein, 53 kDa (Kutchai, H. (1064) 49)

Co-oxidation
Cyclooxygenase; Peroxidase; Nonsteroidal anti-inflammatory drug; Aspirin; Heme (Smith, W.L. (1083) 1)

Copper
Oxidized LDL; Iron; Lipid peroxidation; Phosphate (Kuzuya, M. (1084) 198)

DNA damage; Hydroxyl radical (Sinha, B.K. (1096) 81)

Copper complex
Photosynthesis; Phycocyanin; Subunit spectrum; Bleaching (Woo Park, J. (1056) 181)

Copper deficiency
Cholesterol; Tritiated water; Hypercholesterolemia; (Rat) (Yount, N.Y. (1082) 79)

Copper / heme oxidase
Heme/copper oxidase; Cytochrome *c*; (*E. coli*) (Gennis, R.B. (1058) 21)

Copper(II)
Soybean leghemoglobin α; Oxidation; Reduction; Iron(III) (Bakan, D.A. (1079) 182)

Copper increase
Metallothionein; 5-Azacytidine; Gene expression; Atomic absorption analysis; (Human Hep G2 cell) (Foster, R. (1088) 373)

Copper protein
Enzyme purification; Uricase; Protein, copper; (*Chlamydomonas*) (Alamillo, J.M. (1076) 203)

Copper protein nitrite reductase
Halophile; Nitrate reductase; EPR (Denariaz, G. (1056) 225)

Copper thionein
Plantacyanin; Copper transfer; Oxidation; Cytochrome oxidase; Cardiolipin (Nersissian, A.M. (1076) 337)

Copper transfer
Plantacyanin; Copper thionein; Oxidation; Cytochrome oxidase; Cardiolipin (Nersissian, A.M. (1076) 337)

Copy number
Gene expression; β-Actin promoter; (Human cell) (Morishita, H. (1090) 216)

Core protein
Photosystem I; Reaction center; P700; Iron-sulfur centers F_A and F_B; Iron-sulfur reconstitution; (*Synechococcus* sp. PCC 6301, *psaC* protein) (Mehari, T. (1056) 139)

Photosystem I; Reaction center; P700; Iron-sulfur center; Psa protein; (Cyanobacteria); (*Synechococcus* sp. PCC 6301) (Li, N. (1059) 215)

Cornea
Epithelium; Amphotericin B; Conductance; Capacitance; Impedance analysis; Cell coupling (Reinach, P.S. (1066) 115)

Calmodulin; Epithelium; ATPase; Plasma membrane; Calcium ion transport (Reinach, P.S. (1068) 1)

Corneal opacity
Cholestanol feeding; Cerebrotendinous xanthomatosis; Calcium deposit; (Mouse) (Kim, K.S. (1085) 343)

Corpus luteum
Protein phosphorylation; Estradiol; Polymyxin B; Compound 48/80 (Steinschneider, A. (1093) 102)

Correlation integral
Chaos; N_{14} profile; Tertiary structure; Structural quantity (Kubota, Y. (1079) 73)

Corticosteroid metabolism
11β-Hydroxysteroid dehydrogenase; 11-Dehydrocorticosterone; Enzyme inhibitor; Glycyrrhetinic acid; (Rat kidney) (Bühler, H. (1075) 206)

Corticosteroid synthesis
HDL subfraction; Cholesterol uptake; (Rat adrenal cell) (Hammami, M. (1094) 153)

COS-M6 cell
Gene transfection; Electroporation; Electropermeabilization; Radiofrequency electric field; CV-1 cell; β-*gal* gene (Zheng, Q. (1088) 104)

Cotransport
Lactose carrier; Aspartic acid 237; Lysine 358; Membrane transport (King, S.C. (1062) 177)

Glutamate transport; Sodium dependence; Chloride dependence; Brush-border membrane vesicle; Hepatopancreas; (*Homarus americanus*) (Balon, L.M. (1067) 123)

cDNA library; Polymerase chain reaction; Sodium-D-glucose; (Rabbit kidney); (Rabbit intestine) (Morrison, A.I. (1089) 121)

Beta-cell membrane; Volume regulation; Furosemide; Rubidium ion efflux; (Mouse) (Engström, K.G. (1091) 145)

Cotransport model
Membrane vesicle; Rapid filtration technique; Computer simulation (Andrietti, F. (1067) 103)

Coulometric titration
Dioxygen solubility; Winkler titration; Phospholipid bilayer; DMPC (Smotkin, E.S. (1061) 33)

Covalent binding
DIDS; 4,4′-Diisothiocyanatodihydrostilbene-2,2′-disulfonic acid; Sodium/phosphate cotransporter; Brush-border membrane vesicle; (Rat) (Azzarolo, A.M. (1069) 70)

Covalent coupling
Carboxyacyl derivative; Cardiolipin; Liposome; Proteoliposome; Chymotrypsin; Antibody (Niedermann, G. (1070) 401)

C1q
Extracellular processing; Proteinase, pN-; Dermatosparaxis; Collagen-like complement protein (Yonemasu, K. (1096) 47)

C-reactive protein
Purification; Agglutination; (Eel) (Nunomura, W. (1076) 191)

Receptor internalization; Monocyte/macrophage activation (Tebo, J.M. (1095) 210)

Creatine
Mitochondrial oxidative phosphorylation; Cardiomyocyte; ADP diffusion; ADP compartmentation; Creatine kinase system; Energy transport (Saks, V.A. (1074) 302)

Creatine depletion
Ehrlich ascites tumor cell; Proliferation (Ohira, Y. (1097) 117)

Creatine kinase
Mitochondrion; Oligomeric structure; (Rat brain) (Kottke, M. (1061) 215)

Protein folding; Monoclonal antibody; Epitope mapping; Synthetic peptide; (Human brain) (Man, N. (1076) 245)

cDNA; Testis (Garber, A.T. (1087) 256)

Mitochondrion; Gene expression; Isoenzyme; Creatine phosphate shuttle; Regulation (Payne, R.M. (1089) 352)

Creatine kinase system
Mitochondrial oxidative phosphorylation; Cardiomyocyte; ADP diffusion; ADP compartmentation; Creatine; Energy transport (Saks, V.A. (1074) 302)

Creatine phosphate
Ischemia; Reperfusion; ATPase, Na^+/K^+-; ATP; Sarcolemma; Calcium; (Dog) (Samouilidou, E.C. (1070) 343)

Creatine phosphate shuttle
Creatine kinase; Mitochondrion; Gene expression; Isoenzyme; Regulation (Payne, R.M. (1089) 352)

CRE sequence
Protein phosphatase 2A; Catalytic subunit; GC box; CAT assay (Kitagawa, Y. (1089) 339)

Cross-link
ATPase, H^+/K^+-; Heterodimer; Glycoprotein; $C_{12}E_8$; Glutaraldehyde; Soluble enzyme; Wheat germ agglutinin; FITC (Hall, K. (1077) 173)

Lipid peroxy radical; α-Crystallin; Blue fluorescence; Dityrosine; Cataract (Kikugawa, K. (1096) 108)

Cross-linked matrix
Insoluble polymer; $\epsilon(\gamma$-Glutamyl)lysine; (Human platelet) (Harsfalvi, J. (1073) 268)

Cross-linking
Electron transfer; Photosynthetic particle; Ferredoxin; Flavoprotein; (Cyanobacterium); (*Anabaena* PCC 7119) (Pueyo, J.J. (1059) 149)

Immobilization; Oxygen evolution, stabilization; Extrinsic 33 kDa protein; Protein, 47 kDa; Protein stoichiometry (Enami, I. (1060) 224)

Phospholipid phase transition; Phosphatidylethanolamine; Fluid-fluid immiscibility; Dimethyl suberimidate (Roth, M.R. (1063) 242)

Thiol reactivity; Maltoprin variant; Cysteine substitution; Membrane protein; Membrane topology; Affinity chromatography; (*E. coli*) (Francis, G. (1067) 89)

Lecithin-cholesterol acyltransferase; Apolipoprotein; Cholesterol; Cholesteryl ester; Gradient gel electrophoresis (Bonomo, E.A. (1082) 265)

Endothelin; Receptor; Aorta; Kidney; Heart; (Bovine) (Bednar, D.L. (1092) 226)

Crustacean glycolipid
Phosphonoglycosphingolipid; Phosphonocerebroside; *N*-Methylaminoethylphosphonic acid; (*E. superba*) (Itonori, S. (1081) 321)

Cryo-electron microscopy
Lipid polymorphism; Electron microscopy (Frederik, P.M. (1062) 133)

Cryoenzymology
Microemulsion-based gel; Lipase; Enantioselectivity (Rees, G.D. (1073) 493)

Cryoprotectant
Glycerol; Phosphatidylethanolamine; Phase behavior; Phase diagram (Williams, W.P. (1062) 123)

Crypt isolation
Small intestine; Cell volume; (Guinea-pig) (O'Brien, J.A. (1070) 501)

Crystallin
Immunoassay; Immunohistochemistry (Kato, K. (1074) 201)

Immunoassay; Lens; Immunohistochemistry; (Spleen) (Kato, K. (1080) 173)

α-Crystallin
Lipid peroxy radical; Blue fluorescence; Cross-link; Dityrosine; Cataract (Kikugawa, K. (1096) 108)

γ-Crystallin
Gene structure; Amino acid sequence; (*C. carpio*) (Chang, T. (1090) 261)

Crystallization
ATPase, Ca^{2+}-; Electron diffraction; Sarcoplasmic reticulum; (Rabbit) (Varga, S. (1070) 374)

Crystal structure
5′-*O*-[*N*-(L-Alanyl)sulfamoyl]adenosine; Alanyl-AMP analog; Molecular conformation; X-ray analysis (Ueda, H. (1080) 126)

CTP
Rough endoplasmic reticulum; Polyunsaturated free fatty acid; Membrane fusion; GTP; NADPH; Indomethacin (Lavoie, C. (1070) 274)

CTP : phosphocholine cytidylyltransferase
Cytidylyltransferase (Jamil, H. (1086) 335)

Cubane
High potential iron-sulfur protein; EPR; Spectroscopy; Mossbauer spectroscopy; Structure; *g*-Strain; Salt effect (Dunham, W.R. (1079) 253)

Culture condition
Hexose transport; Cultured epithelial monolayer; Epithelial monolayer; (Caco-2 cells) (Riley, S.A. (1066) 175)

Cultured epithelial monolayer
Hexose transport; Epithelial monolayer; Culture condition; (Caco-2 cells) (Riley, S.A. (1066) 175)

Cultured hepatocyte
Stearyl-CoA desaturase; (Rat) (Legrand, P. (1086) 89)

Cultured renal cell line (A6)
Specific membrane conductance; Membrane conductance; Voltage dependence; Microelectrode; Circuit analysis (Granitzer, M. (1069) 87)

Current-voltage relationship
ATPase, Na^+/K^+-; Reversed pump mode; (*Xenopus* oocyte) (Efthymiadis, A. (1068) 73)

Cuticle
Membrane potential; Cation exchange; Ionic diffusion ratio (Heredia, A. (1062) 239)

CV-1 cell
Gene transfection; Electroporation; Electropermeabilization; Radiofrequency electric field; COS-M6 cell; *β-gal* gene (Zheng, Q. (1088) 104)

Cyanide
Cytochrome *c* oxidase; Ligand binding; Electron paramagnetic resonance; Formate; Halide; (Bovine heart) (Moody, A.J. (1059) 189)

Horseradish peroxidase; Lucifer yellow; Sucrose; ATP; Phosphate transport (Kempson, S.A. (1091) 324)

Cyanide binding
Cytochrome *c′*; Heme protein; Subunit dissociation (Motie, M. (1076) 97)

Cyanide complex
EPR; Myeloperoxidase; Halide; Enzyme catalysis (Lee, H.C. (1076) 317)

Cyanide detoxication
L-3-Cyanoalanine synthase; (Insect) (Meyers, D.M. (1075) 195)

Cyanide-insensitive respiration
Alternative oxidase; NADH dehydrogenase; Q-pool; Regulation; Respiratory chain; (Plant mitochondria) (Moore, A.L. (1059) 121)

Cyanide-resistant respiration
Alternative oxidase; cDNA; Nucleotide sequence; Mitochondrion; (*Hansenula anomala*) (Sakajo, S. (1090) 102)

L-3-Cyanoalanine synthase
Cyanide detoxication; (Insect) (Meyers, D.M. (1075) 195)

Cyanobacterium
Alga; Cytochrome *c*; Ferredoxin; Hydrogenase (Krogmann, D.W. (1058) 35)

Bicarbonate effect; D2 polypeptide; Photosystem II; Site-directed mutagenesis; (*Synechocystis* sp. PCC 6803) (Cao, J. (1059) 171)

Photosystem I; Variable fluorescence at 758 nm; P700 redox state (Shubin, V.V. (1060) 28)

Photosystem I; Gene *psaB*; *psaB* gene; Directed mutagenesis; (*A. variabilis*) (Toelge, M. (1060) 233)

Cyanogen bromide
Membrane topology; Probe; Nicotinic acetylcholine receptor; Acetylcholine receptor; Phosphatidylserine; (*T. californica*) (Blanton, M.P. (1067) 1)

Cyanogen bromide-modified myoglobin
Distal histidine; Magnetic circular dichroism; Pentacoordinate ferric heme; Myoglobin; (*Aplysia*) (Bracete, A.M. (1080) 264)

Cyclic ion mobilization
cyclic ADP-ribose; Second messenger (Walseth, T.F. (1094) 113)

Cyclic voltametry
Photoactivable phospholipid; Planar bilayer membrane; Voltametry; Photopolymerization; Ion channel (Borle, F. (1066) 144)

Cyclodextrin
Glucoamylase; Starch; Binding domain (Belshaw, N.J. (1078) 117)

Encapsulated substrate; Lipoxygenase; (Soybean) (Jyothirmayi, N. (1083) 193)

Cyclodextrin glucanotransferase
Ascorbic acid 2-*O*-α-glucoside; Ascorbic acid; Oligosaccharide; Transglucosylation; α-Glucosidase (Tanaka, M. (1078) 127)

Cycloheximide
Pactamycin; Protein synthesis; mRNA decay; Transcription; (*Dictyostelium discoideum*) (DeSilver, D.A. (1089) 309)

Antiandrogen; Androgen receptor; Prostate (Steinsapir, J. (1094) 103)

Cyclooxygenase
Peroxidase; Nonsteroidal anti-inflammatory drug; Aspirin; Heme; Co-oxidation (Smith, W.L. (1083) 1)

Transcriptional regulation; Dexamethasone; Renal function; Parturition; Ovulation; Inflammation; (3T3 fibroblast); (HL-60); (U937); (Endothelial cell); (MC3T3-E1 cell) (DeWitt, D.L. (1083) 121)

Cyclopeptide
Transport; Bile acid; Hepatocyte; (Rat liver) (Ziegler, K. (1061) 287)

L-Cycloserine
Ceramide; Glucosylceramide; Glucosylceramide glucosidase; Ceramide glucosyltransferase inhibition; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; Sphingolipid hydrolase; Sphingosine biosynthesis inhibition; Kidney (Shukla, G.S. (1083) 101)

Cyclosporin A
Verapamil hypersensitivity; P-glycoprotein; Multidrug resistance (Stow, M.W. (1092) 7)

Regulation; Actin; mRNA; Phorbol ester; T cell antigen receptor; Protein kinase C (Goodier, M.R. (1092) 124)

Cystatin
β-Adrenergic agonist (isoproterenol); Submandibular gland; Saliva; Diversity (Nishiura, T. (1077) 346)

Cysteine
Glycerol dehydrogenase; Metalloenzyme; Amino acid sequence (Spencer, P. (1073) 386)

Malic enzyme; Peptide sequence; (Duck liver) (Satterlee, J. (1079) 247)

Subunit assembly; Intramolecular disulfide bond; Sulfhydryl group; Taste-modifying protein (Igeta, H. (1079) 303)

Cysteine proteinase
Cathepsin; Fluorometry; Papain; Lysosomal enzyme (Tchoupé, J.R. (1076) 149)

Cysteine proteinase inhibitor
Protein folding; Fluorescence; Circular dichroism; FPLC; Stefin A (Žerovnik, E. (1078) 313)

Cysteine residue
Glycine transport; Plasma membrane; Proteoliposome; (Rat brain) (Alcántara, R. (1067) 64)

Cysteine substitution
Thiol reactivity; Cross-linking; Maltoprin variant; Membrane protein; Membrane topology; Affinity chromatography; (*E. coli*) (Francis, G. (1067) 89)

Cysteinyldopa
Cysteinyldopamine; Dopamine; Dopa; Parkinson's disease; (Aging) (Carstam, R. (1097) 152)

Cysteinyldopamine
Cysteinyldopa; Dopamine; Dopa; Parkinson's disease; (Aging) (Carstam, R. (1097) 152)

Cystic fibrosis
Respiratory mucus; Mucin glycoprotein (Padhye, N.V. (1077) 332)

Patch clamp; Chloride channel; Non-selective cation channel; Nasal epithelium (Jorissen, M. (1096) 52)

Sweat gland; Ion channel; Potassium; Rectification (Henderson, R.M. (1097) 219)

Cystic fibrosis protein
Serum; Immunological relationship (Barthe, C. (1096) 175)

Cystine transport
Glutathione level; Hydrogen peroxide; (Mouse peritoneal macrophage) (Bannai, S. (1092) 175)

Cytidyltransferase
Enzyme translocation; Choline glycerolipid synthesis; (Krebs-II ascite cell) (Tercé, F. (1084) 69)

Cytidylyltransferase
Fatty acid; Phosphatidylcholine synthesis; Membrane bound enzyme; Enzyme kinetics (Weinhold, P.A. (1086) 57)

CTP : phosphocholine cytidylyltransferase (Jamil, H. (1086) 335)

Cytochalasin
Phospholipid biosynthesis; Colchicine; Calcium; EGTA; Verapamil; Digitonin-permeabilization; Rat glioma cell (George, T.P. (1084) 185)

Cytochalasin B
Glucose transport; Thyroid hormone, T_3; GLUT-1; GLUT-1 mRNA; Clone 9 cell (Kuruvilla, A.K. (1094) 300)

Cytochrome *b*
Circular dichroism; Sequence analysis; Protein modelling; Membrane protein (Degli Esposti, M. (1056) 243)

Cytochrome b_5
Chimeric protein; Fusion protein; Hydrophobic domain; β-Galactosidase; Phosphatidylcholine; Liposome (George, S.K. (1061) 26)

Fusion protein; β-Galactosidase; Plasma membrane; Membrane association; Fluorescence recovery (George, S.K. (1066) 131)

Acyl chain elongation; Fatty acid; Microsome; Desaturase; (Rat liver) (Demirkapi, N. (1082) 49)

Cytochrome *b*-558
Differentiation; Phagocyte; Leukemia cell (Capeillere-Blandin, C. (1094) 55)

NADPH oxidase; NADPH-cytochrome *c* reductase; Superoxide generation; Flavoenzyme; (Neutrophil) (Fujii, H. (1095) 201)

Cytochrome *b*559
Manganese-stabilizing 33 kDa protein; Oxygen evolution; Photosystem II; Radiation inactivation; (Spinach) (Takahashi, M. (1059) 361)

Cytochrome *b*-561
Synaptic vesicle; Dopamine β-hydroxylase; Synaptin/synaptophysin (Schmidle, T. (1060) 251)

Cytochrome bc_1 complex
Mitochondrion; QH_2:cytochrome *c* oxidoreductase; Ubiquinone; Respiratory chain (Marres, C.A.M. (1057) 51)

Phenolic uncoupler; Respiratory inhibition (Tokutake, N. (1057) 377)

Cytochrome b_6f
Topology; Chemical crosslinking; (Spinach thylakoid) (Shallan, M.A.-A.M. (1057) 64)

Resonance Raman; Photoreduction; Heme; Cytochrome *f* (Hobbs, J.D. (1059) 37)

Cytochrome b_6f complex
Trypsin; Spinach chloroplast (Li, L.-B. (1057) 215)

Cytochrome *c*
Nitrotyrosine-83 plastocyanin; Cytochrome *f*; pH dependence; Plastocyanin (Gross, E.L. (1056) 166)

Heme protein; Protein sequence (Kamen, M.D. (1058) 3)

Location; Periplasmic space (Wood, P.M. (1058) 5)

Primary structure; Sequence; Cytochrome, diheme; Diheme cytochrome (Van Beeumen, J. (1058) 56)

Mono-multiheme; Axial ligand; Sulfate reducer; (*Desulfovibrio*); (Spectroscopy) (Moura, J.J.G. (1058) 61)

Electron transfer; Marcus theory; Redox potential (Cusanovich, M.A. (1058) 67)

Electron transfer; Proton movement; Energy transduction (Williams, R.J.P. (1058) 71)

Cytochrome *c'*
Ligand binding; Hemoprotein; Subunit dissociation (Kassner, R.J. (1058) 8)

Multi-heme *c*-cytochrome; Catalytic *c*-heme; Nitrification (Hooper, A.B. (1058) 13)

Periplasm; Denitrification; Methanol dehydrogenase; Nitric oxide binding (Ferguson, S.J. (1058) 17)

Heme/copper oxidase; Copper/heme oxidase; (*E. coli*) (Gennis, R.B. (1058) 21)

Mitochondrial evolution; (*Rps. viridis*); (*Pa. denitrificans*) (Pettigrew, G.W. (1058) 25)

Electron transfer protein; HiPIP; (Purple bacterium) (Bartsch, R.G. (1058) 28)

Cytochrome evolution; Photosynthesis (Meyer, T.E. (1058) 31)

Cyanobacterium; Alga; Ferredoxin; Hydrogenase (Krogmann, D.W. (1058) 35)

Bacterioferritin; Hemoferritin; Ferritin; 4-α-helical (Moore, G.R. (1058) 38)

Sequence classification; Evolutionary map; Phenotype (Ambler, R.P. (1058) 42)

Amino acid sequence; Oxidoreductase reactivity; (*N. winogradskyi*); (*T. novellus*) (Yamanaka, T. (1058) 48)

EPR; Optical absorption; Nitrosyl complex; (*Ach. xylosoxidans*) (Iwasaki, H. (1058) 79)

Molecular dynamics; Protein dynamics (Weber, P.C. (1058) 83)

(*P. denitrificans*) (Gilmour, R. (1059) 233)

Cyanide binding; Heme protein; Subunit dissociation (Motie, M. (1076) 97)

Denaturation; Protein folding; Small angle X-ray scattering; Dynamic light scattering; Random coil (Damaschun, G. (1078) 289)

Alcohol dehydrogenase; Structural gene; (*Acetobacter polyoxogenes*) (Tamaki, T. (1088) 292)

Cytochrome c_2
NMR; pH effect; (*R. rubrum*) (Smith, G.M. (1058) 75)

Cytochrome *c*-552
Cytochrome *c*-555; Sequence; Evolution; (*B. azotoformans*) (Hreggvidsson, G.O. (1058) 52)

Cytochrome *c*-554
Heme structure; Resonance Raman; (*C. aurantiacus*) (Heibel, G. (1060) 196)

FTIR; Membrane dynamics; Flexibility gradient; Cholesterol; Gramicidin A (Castresana, J. (1065) 29)

Cytochrome *c*-555
Cytochrome *c*-552; Sequence; Evolution; (*B. azotoformans*) (Hreggvidsson, G.O. (1058) 52)

Cytochrome *c* heme peptide
Halogenomethane metabolism; Heme peptide modification; NADPH-cytochrome *P*-450 reductase (Masuda, Y. (1075) 131)

Cytochrome *c* oxidase
Ligand binding; Electron paramagnetic resonance; Cyanide; Formate; Halide; (Bovine heart) (Moody, A.J. (1059) 189)

Presequence; cDNA; Nuclear gene (Smith, E.O. (1089) 266)

Subunit VI; cDNA; Nucleotide sequence; (*Dictyostelium discoideum*) (Rizzuto, R. (1089) 386)

Subunit IV; cDNA; Nucleotide sequence; Cleavable presequence; Mitochondrion; (*Dictyostelium discoideum*) (Rizzuto, R. (1090) 125)

Hepatectomy; Cell proliferation; (Rat T-lymphocyte) (Otero, A. (1092) 184)

Immuno-flow cytometry; Immunoprecipitation; Mitochondrial protein; Mitochondrial myopathy (Van den Bogert, C. (1097) 87)

Cytochrome *c* oxidase-negative
In situ hybridization; Mitochondrial myopathy; mtDNA deletion (Collins, S. (1097) 309)

Cytochrome *c* peroxidase
Two-fragment complex; Heme–heme interaction; Enzyme mechanism; (*P. aeruginosa*) (Ellfolk, N. (1080) 68)

Peroxidase; Ligninase; Active site; Heme; Evolution; Structure prediction (Welinder, K.G. (1080) 215)

Cytochrome, *c*-type
Gene expression; Inclusion body; (*Escherichia coli*); (*Rhodopseudomonas viridis*) (Grisshammer, R. (1088) 183)

Cytochrome *CYP2B2* gene
Glucocorticoid-receptor complex; Gel retardation assay (Plisov, S.Y. (1095) 114)

Cytochrome *d*
Trioxodinitrate; Nitrite ion; Kinetics; (*E. coli*) (Bonner, F.T. (1056) 133)

Cytochrome, diheme
Primary structure; Sequence; Cytochrome *c*; Diheme cytochrome (Van Beeumen, J. (1058) 56)

Cytochrome *d* terminal oxidase
Gene expression; Membrane-bound protein; (*E. coli*) (Newton, G. (1089) 8)

Cytochrome evolution
Photosynthesis; Cytochrome *c* (Meyer, T.E. (1058) 31)

Cytochrome *f*
Nitrotyrosine-83 plastocyanin; Cytochrome *c*; pH dependence; Plastocyanin (Gross, E.L. (1056) 166)

Cytochrome b_6f; Resonance Raman; Photoreduction; Heme (Hobbs, J.D. (1059) 37)

Cytochrome oxidase
Enzyme assay; Development; (Rat brain) (Brown, G.C. (1057) 273)

Plantacyanin; Copper transfer; Copper thionein; Oxidation; Cardiolipin (Nersissian, A.M. (1076) 337)

Subunit Vb; cDNA; (Mouse) (Basu, A. (1087) 98)

Cytochrome *P*-450
Chemical modification; Membrane topology; Substrate binding site (Kunz, B.C. (1063) 226)

Membrane topology; Microsome; (Rat liver) (Vergères, G. (1063) 235)

NADPH-cytochrome *c* reductase; Phosphatase; Microsome; (Rat liver) (Puntarulo, S. (1074) 12)

Triiodothyronine; (Rat liver) (Kleiman de Pisarev, D.L. (1074) 172)

Hypertension; Western blotting; (Rat hepatic microsome); (Rat renal microsome) (Imaoka, S. (1074) 209)

Electronic absorption spectra; High-spin/low-spin equilibrium; Spin state (Jung, C. (1076) 130)

Ligand binding (Ristau, O. (1078) 321)

Cytochrome $P\text{-}450_{14DM}$
Lanosterol 14α-demethylase; Pig liver (Sono, H. (1078) 388)

Omega oxidation; Fatty acid oxidation; Lauric acid; Alcohol dehydrogenase; Peroxisome; (Rat hepatocyte) (Christensen, E. (1081) 167)

Coenzyme A reductase; Cholesterol biosynthesis; (Prokaryote) (Serizawa, N. (1084) 35)

Cytochrome $P\text{-}450_{17\alpha,lyase}$
Steroidogenesis; Adrenal microsome; Cytochrome $P\text{-}450_{C21}$; Progesterone metabolism (Higuchi, A. (1084) 240)

Cytochrome $P\text{-}450_{C21}$
Steroidogenesis; Adrenal microsome; Cytochrome $P\text{-}450_{17\alpha,lyase}$; Progesterone metabolism (Higuchi, A. (1084) 240)

Fatty acid metabolism; Seminal oxygenation; Epoxide; (Monkey) (Oliw, E.H. (1086) 287)

Hepatocarcinogenesis; Tumor promotion; Phenobarbital; Development; (Rat) (Lechner, M.C. (1087) 157)

P450IIIA; cDNA sequence; (Dog); (*Liver*) (Ciaccio, P.J. (1088) 319)

Genetic polymorphism; DNA sequence; (Human) (Ged, C. (1088) 433)

PAF; Alveolar type II cell; Xenobiotic metabolism; Pneumocyte (Rabovsky, J. (1095) 223)

Aging; Western blotting; (Rat hepatic microsome) (Imaoka, S. (1097) 187)

Cytochrome *P*-450IIe1
Liver metabolism; Pyrazole; (Rat hepatocyte) (Dicker, E. (1073) 316)

Cytochrome *P*-450 substrate recognition
Lanosterol side chain; Dihydrolanosterol; Lanosterol 14α-demethylase; Lanosterol derivative; (Yeast microsome) (Aoyama, Y. (1081) 262)

Cytochrome subunit
Reaction center; Antenna complex; Detergent solubilization; (*Ectothiorhodospira mobilis*, *halophila*, *shaposhnikovii*) (Leguijt, T. (1057) 353)

Cytokine
Tumor necrosis factor; Lipoprotein lipase mRNA; Interleukin-1; Lipoprotein lipase activity; (Rat heart cell) (Friedman, G. (1089) 83)

Fibrinogen; Cholesterol; HepG2 cell; (Human monocyte) (Lane, A. (1097) 161)

Cytopathogenicity
ADP-ribosylation; Toxin B; Stress; (*C. difficile*); (Human fibroblasts) (Florin, I. (1091) 51)

Cytoplasmic concentration
Anthracycline; Adriamycin; Drug resistance; Fluorescence (Frezard, F. (1091) 29)

Cytoprotection
LDL; Lipid peroxidation; Cytotoxicity; Antioxidant; Ultraviolet irradiation; (Human lymphoblast) (Negre-Salvayre, A. (1096) 291)

Cytoskeletal protein
Hemin; Hemolysis; Erythrocyte (Solar, I. (1062) 51)

Cytoskeleton
Talin; Lipid selectivity; Lipid–protein interaction; (Platelet) (Heise, H. (1061) 121)

Spectrin; Liposome; Phospholipid vesicle; Erythrocyte elasticity (Subbarao, N.K. (1063) 147)

Erythrocyte; Electrostatic force; Spectrin; (Human) (Kahana, E. (1066) 1)

Calpain; NCAM; Synaptic; Plasticity (Sheppard, A. (1076) 156)

Cytosol
Calcium; Lipoxygenase (Nichols, R.C. (1085) 77)

Cytosolic calcium
Beta-cell; Depolarization; HIT-T15 cell; Lactate; Cation permeability (Lynch, A.M. (1091) 141)

Epinephrine; Protein kinase C; Calcium, cytosolic; cyclic AMP; (Human platelet) (Zoccarato, F. (1092) 72)

Cytosolic free calcium
Bradykinin; Br-A23187; Inositol phosphate; Fibroblast (Huang, H.-M. (1091) 409)

Cytosolic free calcium concentration
Cell cycle; Calcium ion; Calmodulin; Calcium ion concentration, transient; DNA replication; Mitosis; Nuclear division (Anraku, Y. (1093) 169)

Cytosolic protein
Bile acid transport; 3α-Hydroxysteroid dehydrogenase; Indomethacin; (Rat hepatocyte) (Takikawa, H. (1084) 247)

Cytotoxicity
Bile salt; Vascular endothelial cell; (Human) (Garner, C.M. (1091) 41)

Hepatotoxicity; Bile salt; Glucuronidation (Takikawa, H. (1091) 173)

LDL, oxidized; Atherosclerosis; Lipid peroxidation; Transition metal; (Bovine aortic endothelial cell) (Kuzuya, M. (1096) 155)

LDL; Lipid peroxidation; Cytoprotection; Antioxidant; Ultraviolet irradiation; (Human lymphoblast) (Negre-Salvayre, A. (1096) 291)

D

Damage factor
DNA damage; Drug resistance; Topoisomerase II (Sinha, B.K. (1097) 111)

Dantrolene
Anthraquinone; Excitation–contraction coupling; Ryanodine binding; Calcium release channel; Cardiotoxicity (Tian, Q. (1094) 27)

DCCD
Oligomycin sensitivity conferring protein; ATP synthase; Energy coupling; Oligomycin; Proton translocation (Joshi, S. (1067) 255)

DCMU
Fluorescence induction; Photosystem II heterogeneity; Chlorophyll fluorescence (Hsu, B.-D. (1056) 285)

D1 / D2 / cyt *b*-559
Reaction center; Photosystem II; Serine; Endopeptidase (Misra, A.N. (1059) 239)

D_1-D_2-cyt-*b*-559 reaction center
Photosystem II; Reaction center kinetics; Picosecond chlorophyll fluorescence; Photosynthesis; Charge separation; Energy transfer (Roelofs, T.A. (1060) 237)

Δ^4-Desaturation
Fatty acid retroconversion; Docosatetraenoate; Docosapentaeonate; Arachidonate; Icosapentaenoate; (Human skin fibroblast); (Retinoblastoma cell) (Rosenthal, M.D. (1083) 29)

Deacylation
Fatty acid remodelling; Phospholipid; Reacylation; Acyltransferase (MacDonald, J.I.S. (1084) 105)

Phosphatidylinositol; Phospholipid remodelling (Darnell, J.C. (1084) 269)

Phosphatidylinositol; Fatty acid remodelling; Phospholipase A; Reacylation (Darnell, J.C. (1084) 279)

De-ADP-ribosylation
ADP-ribosyltransferase; Guanine nucleotide; (Pig brain cytosol); (*C. botulinum*) (Habermann, B. (1077) 253)

Deazaflavin
Methylenetetrahydromethanopterin dehydrogenase; 5,6,7,8-Tetrahydromethanopterin; Coenzyme F_{420}; Methanogenesis; (*M. thermoautotrophicum*) (Te Brömmelstroet, B.W. (1073) 77)

Decay-accelerating factor
Urine; Complement (Nakano, Y. (1074) 326)

Decondensation
Chromatin; Solubility; Nucleus; (Rat thymocyte) (Engelhardt, M. (1087) 173)

Deformability
Agglutination; Lectin; Concanavalin A; Erythrocyte membrane; (Human erythrocyte) (Pestonjamasp, K.N. (1073) 341)

Deglycosylation
Glucose oxidase; (*A. niger*) (Kalisz, H.M. (1080) 138)

Degradation
Thymidine; Density-inhibition; Nucleotide (Nakano, S. (1094) 263)

11-Dehydrocorticosterone
11β-Hydroxysteroid dehydrogenase; Corticosteroid metabolism; Enzyme inhibitor; Glycyrrhetinic acid; (Rat kidney) (Bühler, H. (1075) 206)

Dehydroepiandrosterone
Steroid hormone; Lipoprotein; HDL; Androstenediol; Dihydrotesterone; Estradiol; Pregnenolone; Progesterone (Leszczynski, D.E. (1083) 18)

Peroxisome proliferation; Enzyme induction; (Rat liver) (Yamada, J. (1092) 233)

Dehydroergosterol
Cholesterol; Membrane domain; Erythrocyte; Fluorescence quenching; Fluorescence photobleaching; (Human) (Schroeder, F. (1066) 183)

Dehydrogenase
Monoclonal antibody; Metalloenzyme; (Human) (Ho, Y.-W. (1074) 419)

Deleted mutant
Plasma protein; Gene expression; Transcription factor; (Bombyx) (Sakurai, H. (1087) 18)

Deletion mutant
ATPase, Na^+/K^+-; Amino-terminus; Lysine cluster; (*R. catesbiana*) (Ohta, T. (1059) 157)

Delta subunit
Structure–function relationship; ATPase, F_1F_0-; (*E. coli*) (Mendel-Hartvig, J. (1060) 115)

Denaturation
Protein folding; Small angle X-ray scattering; Dynamic light scattering; Cytochrome *c*; Random coil (Damaschun, G. (1078) 289)

ATPase, Ca^{2+}-; Freeze-thaw; Membrane protein; Amino acid (Lalonde, R.J. (1079) 128)

Denitrification
Nitrate reductase; Molybdoenzyme; Bacterial respiration; Overproduction; (*Pseudomonas*) (Blümle, S. (1057) 102)

Cytochrome *c*; Periplasm; Methanol dehydrogenase; Nitric oxide binding (Ferguson, S.J. (1058) 17)

Density fluctuation
Lipid bilayer; Phase transition; Phase diagram; Molecular interaction; Drug; Anesthetic; Interface (Jørgensen, K. (1062) 227)

Lipid bilayer; Phase transition; Drug; Anesthetic; Insecticide; Interface (Jørgensen, K. (1067) 241)

Density-inhibition
Thymidine; Nucleotide; Degradation (Nakano, S. (1094) 263)

Dentin
Bone; Matrix protein; Phosphoprotein; Hydroxyapatite (Fujisawa, R. (1075) 56)

Deoxyadenosine triphosphate
ATP; 2′-Deoxycoformycin; Lymphoproliferative malignancy; Hemolytic anemia (Nakashima, K. (1094) 257)

Deoxycardiolipin
Phospholipid; Cardiolipin; Diphosphatidylglycerol; Hydrogen bonding; FTIR (Hübner, W. (1066) 166)

2′-Deoxycoformycin
ATP; Deoxyadenosine triphosphate; Lymphoproliferative malignancy; Hemolytic anemia (Nakashima, K. (1094) 257)

Deoxyhypusyl hydroxylase
Eukaryotic translation initiation factor 4D; Metal binding peptide; Peptide inhibitor design (Abbruzzese, A. (1077) 159)

5′-Deoxy-5′-methylthioadenosine
Methionine; Melanoma cell; Serum; (Human); (Equine) (Liteplo, R.G. (1088) 365)

Deoxyribonuclease
Phenylglyoxal; Arginine modification; DNA binding site; DNA protection; (Bovine pancreas) (Liao, T.-H. (1079) 335)

3′-Deoxythymidine
HIV; Hepatitis B virus; Phospholipid prodrug; AZT; Dideoxycytidine; Mitochondrion; Microsome (Van Wijk, G.M.T. (1086) 99)

Dephosphorylation
ATPase, H^+/K^+-; Phosphate, inorganic; Phosphorylation; (SCH 28080) (Van der Hijden, H.T.W.M. (1061) 141)

Depolarization
Beta-cell; Cytosolic calcium; HIT-T15 cell; Lactate; Cation permeability (Lynch, A.M. (1091) 141)

Derivative spectroscopy
Botulinum neurotoxin; Circular dichroism; (*C. botulinum*); (*C. butyricum*) (Singh, B.R. (1077) 119)

Dermatosparaxis
Extracellular processing; Proteinase, pN-; C1q; Collagen-like complement protein (Yonemasu, K. (1096) 47)

Desaturase
Temperature adaptation; Homeoviscous adaptation; DPH polarization; Fluorescence (Wodtke, E. (1064) 343)

Acyl chain elongation; Cytochrome b_5; Fatty acid; Microsome; (Rat liver) (Demirkapi, N. (1082) 49)

Δ^{12}-Desaturase
Catalytic hydrogenation; Membrane fluidity; Microviscosity; Fatty acid hydrogenation; Linoleic acid; Microsomal membrane; (*C. lipolytica*) (Horváth, I. (1085) 126)

Desaturation
Essential fatty acid; Evening primrose oil; Aging; (Rat liver microsome) (Biagi, P.L. (1083) 187)

Incorporation; Microsomal lipid; Lipid; Age; (Blackcurrant seed oil) (Ulmann, L. (1086) 230)

Δ^5-Desaturation
Incorporation; Dihomo-γ-linolenic acid ($20:3(n-6)$); Arachidonic acid ($20:4(n-6)$); Rat liver microsome (Blond, J.P. (1084) 255)

Des-(B26–B30)-insulin
NMR, two dimensional; Sequence-specific resonance assignment (Hua, Q.-X. (1078) 101)

Desensitization
Adenylate cyclase; Agonist; Phorbol ester; (Pig epidermis) (Iizuka, H. (1093) 95)

Prostaglandin E_1 receptor; GTP-binding protein; Mastocytoma P-815 cell; Adenylate cyclase; Signal transduction (Hashimoto, H. (1095) 140)

Desoctapeptide insulin
FTIR; Insulin; Despentapeptide insulin; Secondary structure (Wei, J. (1080) 29)

Despentapeptide insulin
FTIR; Insulin; Desoctapeptide insulin; Secondary structure (Wei, J. (1080) 29)

Detergent
ATPase, H^+/K^+-; Phosphorylation; Orientation; Free fatty acid (Swarts, H.G.P. (1070) 283)

Sulfotransferase; Chondroitin sulfate; Cartilage (Salač, M.L.B. (1074) 130)

Lipase; Organic solvent-soluble lipase; Thermostability; Enzymatic reactivity (Tsuzuki, W. (1083) 201)

Bile salt; Glycosphingolipid; Glycoside hydrolase; (bacteria) (Falk, P. (1084) 139)

Detergent solubilization
Reaction center; Antenna complex; Cytochrome subunit; (*Ectothiorhodospira mobilis*, *halophila*, *shaposhnikovii*) (Leguijt, T. (1057) 353)

Thiamine triphosphatase; Thiamine triphosphate; Anion; (*E. electricus*) (Bettendorff, L. (1073) 69)

Detoxication
Glutathione; Glutathione-*S*-conjugate; Intestinal transport; (Rabbit) (Vincenzini, M.T. (1073) 571)

Detoxification
Glutathione; Glutathione transferase; Drug resistance; Urinary bladder (Singh, S.V. (1074) 363)

Deuterium oxide
Hexose transport; Transport kinetics; Carrier; (Rat erythrocyte) (Naftalin, R.J. (1064) 37)

Development
Cytochrome oxidase; Enzyme assay; (Rat brain) (Brown, G.C. (1057) 273)

Heat-labile toxin; Intestinal brush border; Binding site; Galactoprotein; (*E. coli*) (Griffiths, S.L. (1075) 154)

Pulmonary surfactant; Surfactant protein; Glucocorticoid; Dexamethasone (Shimizu, H. (1081) 53)

Arylsulfatase A; Arylsulfatase B; Cerebroside sulfatase; Sulfolipid; (Rat brain) (Van der Pal, R.H.M. (1081) 315)

Cholesterol; Tritiated water; (Guinea pig) (Yount, N.Y. (1085) 82)

Cytochrome *P*-450; Hepatocarcinogenesis; Tumor promotion; Phenobarbital; (Rat) (Lechner, M.C. (1087) 157)

Ubiquitin; Ubiquitin-mediated proteolysis; Neurodegenerative disease; Viral disease (Mayer, R.J. (1089) 141)

G protein; Alpha subunit; Signal transduction; Expression; (Mammalian cell and tissue) (Garibay, J.L.R. (1094) 193)

Developmental expression
Prothrombin mRNA; mRNA; Tissue-type expression; Gestation; (Rat) (Jamison, C.S. (1088) 208)

Developmental variation
Metallothionein mRNA; Heavy metal; (Mouse) (Mercer, J.F.B. (1097) 205)

Dexamethasone
Anti-inflammatory; Prostaglandin; Membrane fluidity; (Rabbit cardiac muscle) (Gerritsen, M.E. (1065) 63)

Pulmonary surfactant; Surfactant protein; Development; Glucocorticoid (Shimizu, H. (1081) 53)

Cyclooxygenase; Transcriptional regulation; Renal function; Parturition; Ovulation; Inflammation; (3T3 fibroblast); (HL-60); (U937); (Endothelial cell); (MC3T3-E1 cell) (DeWitt, D.L. (1083) 121)

Collagen; Gene expression; Glucocorticoid; Steroid receptor; (Heart); (Tendon) (Oikarinen, A. (1089) 40)

Amino acid; Cell membrane; Trauma (Hundal, H.S. (1092) 376)

Skeletal muscle nucleus; RNA polymerase (Goodlad, G.A.J. (1097) 166)

Diabetes
Vanadate; Insulin; Malic enzyme; Glucose-6-phosphate dehydrogenase (Pugazhenthi, S. (1083) 310)

Atherosclerosis; Benfluorex; Hypercholesterolemia; Hypertriglyceridemia; Insulin resistance; Obesity; Triacylglycerol synthesis (Brindley, D.N. (1085) 119)

G protein; Adenylate cyclase; Protein expression; (Rat membrane) (Strassheim, D. (1096) 121)

G protein; Adenylate cyclase; Protein expression; (Rat membrane) (Livingstone, C. (1096) 127)

HMG-CoA reductase inhibitor; Cholesterol; Hyperlipidemia; Lipoprotein (Arbeeny, C.M. (1096) 238)

G protein; ADP-ribosylation (Palmer, T.M. (1097) 193)

Diabetes mellitus
AMP-deaminase; Heart (Jenkins, R.L. (1077) 379)

Islet amyloid polypeptide; Amylin; IAPP gene; Type 2 diabetes mellitus; Gene structure; (Rat); (Human) (Van Mansfeld, A.D.M. (1087) 235)

Diabetes mellitus, type 2
Liver/islet glucose transporter; Restriction fragment length polymorphism; Racial difference (Li, S.-R. (1097) 293)

Diacylglycerol
Membrane fusion; Phospholipase C; Non-bilayer phase; Fast freezing; Freeze-fracture (Burger, K.N.J. (1068) 249)

Sodium pump; ATPase, Na^+/K^+-; Monoacylglycerol (Askari, A. (1069) 127)

Lysophosphatidylcholine; Lysophospholipase C; Monocyte; Chemotaxis (Quinn, M.T. (1082) 293)

Platelet; pH, intracellular; Sodium ion–proton exchange; Phosphoinositide; Protein kinase C; Aggregation (Luzzatto, G. (1084) 78)

Molecular species; Phorbol myristate acetate; Phosphatidylcholine turnover (Robinson, M. (1085) 63)

Lipoprotein turnover; Lipid metabolism; Lipophorin; Apolipoprotein; Insect flight; (Insect) (Surholt, B. (1086) 15)

Sphingomyelin; Phosphatidylcholine; Ceramide; Octyl glucoside (Hanada, K. (1086) 151)

Tumor necrosis factor α; Phosphatidylinositol; Phospholipase C; Arachidonic acid; Prostaglandin (Rapuano, B.E. (1091) 374)

Colonic cancer; Chemical carcinogenesis; Malignant transformation; Signal transduction (Wali, R.K. (1092) 119)

1,2-Diacylglycerol
Phosholipase D; Phosphatidic acid; Transphosphatidylation; Sarcolemma; Sarcoplasmic reticulum; (Rat heart) (Panagia, V. (1064) 242)

Molecular species; Phosphatidic acid; Mitogen stimulation; (Swiss 3T3 cell) (Divecha, N. (1093) 184)

Diacylglycerol acyltransferase
Fish oil; Hepatomegaly; Cholesterol; Triacylglycerol synthesis; Glucose-6-phosphate dehydrogenase; Malic enzyme; Insulin; (Rat liver) (Otto, D.A. (1082) 37)

Diacylglycerol kinase
Phosphatidylinositol kinase; Phosphatidylinositol 4-phosphate kinase; Phospholipase C; Calcium ion regulation; Tobacco plasma membrane (Kamada, Y. (1093) 72)

Diacylglycerol lipase
Phospholipase A_2; Phospholipase C; Monoacylglycerol lipase; Arachidonic acid; (Rat macrophage) (Errasfa, M. (1085) 201)

Diadenosine 5′,5‴-P^1,P^3-triphosphate
Dinucleoside triphosphatase; Dinucleoside polyphosphate; Phosphodiesterase I; (Brain) (García-Agúndez, J.A. (1073) 402)

Diagnostic
Androgen receptor; Synthetic peptide; Antibody; MAb performance; Immunohistochemistry; (Human) (Zegers, N.D. (1073) 23)

Diallyl disulfide
3-Hydroxy-3-methylglutaryl CoA reductase; Inhibition (Om Kumar, R.V. (1078) 219)

Dialyzed cell
Ion distribution; Whole-cell recording; Sodium/potassium pump current; Sodium–calcium exchange current (Bielen, F.V. (1065) 269)

Diamide
Erythrocyte membrane; Oxidative modification; Electroporation; Leakage; Colloid-osmotic lysis; Phloretin (Deuticke, B. (1067) 111)

Cation transport; Glutathione; Ionic strength; (Human erythrocyte) (Ihrig, I. (1069) 171)

Diamine oxidase
Paw edema; Oxygen toxicity; Polymorphonuclear leukocyte; Superoxide dismutase (Ando, Y. (1073) 374)

Intestinal ischemia; Histamine (Koshi, S. (1075) 231)

***cis*-Diamminedichloroplatinum (II)**
Chromatin structure; HMG proteins 1 and 2 (Hayes, J.J. (1088) 413)

Chromatin structure; Nucleosome; LMG protein (Hayes, J. (1089) 377)

Dianthin 30
Ribosome inactivating protein; Saporin 6 (Legname, G. (1090) 119)

Diazonium salt
Acetylcholinesterase; Affinity labelling; Butyrylcholinesterase (Ehret-Sabatier, L. (1076) 137)

α-Dicarbonyl reagent
Arginine modification; Arginine reactivity (Baburaj, K. (1078) 258)

Dicarboxylic amino acid
Peroxisome; Oxidase; Zellweger syndrome; Excitotoxicity; (Human liver) (Van Veldhoven, P.P. (1073) 203)

2′,3′-Dideoxyadenosine
Nucleoside analog; Adenosine deaminase (Nair, V. (1078) 121)

Dideoxycytidine
HIV; Hepatitis B virus; Phospholipid prodrug; AZT; 3′-Deoxythymidine; Mitochondrion; Microsome (Van Wijk, G.M.T. (1086) 99)

DIDS
4,4′-Diisothiocyanatodihydrostilbene-2,2′-disulfonic acid; Covalent binding; Sodium/phosphate cotransporter; Brush-border membrane vesicle; (Rat) (Azzarolo, A.M. (1069) 70)

K pathway; Taurine transport; Choline transport; Cell volume regulation; Ionic strength; Trout erythrocyte (Motais, R. (1075) 169)

Dielectric dispersion
Activation enthalpy; Dielectric relaxation; Temperature dependence (Pedone, F. (1073) 580)

Dielectric relaxation
Activation enthalpy; Temperature dependence; Dielectric dispersion (Pedone, F. (1073) 580)

Dielectrophoresis
Electrofusion; Erythrocyte; Hemi-fusion (Song, L. (1065) 54)

Actin; Cell protrusion; Electrical field (Popov, S.V. (1066) 151)

Local deformation; Echinocyte (Gass, G.V. (1093) 162)

Diet
Apolipoprotein A-I; HDL; Saturated fat; (Rabbit) (Carlson, T.L. (1083) 221)

Apolipoprotein E-3; Chylomicron; Cholesterol; (Skin fibroblasts); (Human) (Arnon, R. (1085) 336)

Gene expression; LDL receptor; Apolipoprotein B; Mouse strain (Srivastava, R.A.K. (1086) 29)

Dietary cholesterol
Plasma triacylglycerol clearance; Cholesterol (Quarfordt, S.H. (1082) 247)

Bile acid synthesis; Bile acid malabsorption; Lymphatic drainage (Björkhem, I. (1085) 329)

Dietary fat
$(n-3)$ Fatty acid; $(n-6)$ Fatty acid; Fatty acid desaturation; Microsome; (Rat liver) (Christiansen, E.N. (1082) 57)

Tumor necrosis factor; $(n-3)$ Fatty acid; Polyunsaturated fatty acid; Prostaglandin (Hardardottir, I. (1095) 187)

Dietary induction
Phytase; (Rat intestine) (Yang, W.-J. (1075) 83)

Diether phosphonolipid
Lung surfactant; Phospholipid; Glycerophospholipid; Analog; Synthesis; Preparative HPLC; Surface activity; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

Diethyl maleate
Glutathione; Hepatic blood flow; Prostacyclin; Thromboxane (Bottje, W. (1073) 168)

Diethyl pyrocarbonate
Succinate dehydrogenase; Histidine modification; Membrane anchoring protein; (Mitochondria) (Paudel, H.K. (1056) 159)

Brush-border membrane transporter; Chemical modification; Transport system (Beaumier, B. (1068) 142)

Diferric transferrin
NADH oxidase; Plasma membrane; Carcinogen; 2-Acetylaminofluorene; (Rat liver) (Morré, D.J. (1057) 140)

Bathophenanthroline disulfonate (BPS); Ferricyanide; Ferrozine; Redox activity; K562 cell (Bérczi, A. (1073) 562)

Differential incorporation
C57BL/6 mice; Competitive inhibition (Huang, Y.-S. (1082) 319)

Differential thermal analysis
Helical peptide; Tetraether lipid; Lipid phase transition (Blöcher, D. (1065) 160)

Differentiation
Multicatalytic proteinase; Proteinase; ATP; (Murine erythroleukemia cell) (Tsukahara, T. (1079) 273)

Fatty acid binding protein; Retinol-binding protein; Myelin P_2; Tissue-specific expression; Fatty acid binding site; Peroxisomal proliferator; (Liver, Heart, Muscle, Kidney, Adipocyte) (Veerkamp, J.H. (1081) 1)

LDL; LDL receptor; Cholesterol (Hayashi, K. (1082) 152)

c-*myb*; Myelomonocyte; Granulocyte colony stimulation factor; Maturation (Yanagisawa, H. (1088) 380)

Adipose conversion; Prostaglandin; Prostacyclin; Preadipocyte; (Adipose cell) (Catalioto, R.-M. (1091) 364)

Growth regulation; Myeloid leukemia cell; Pyrimidine nucleoside; Staurosporin; (HL-60 cell) (Makishima, M. (1094) 1)

Cytochrome *b*-558; Phagocyte; Leukemia cell (Capeillere-Blandin, C. (1094) 55)

Lysosomal proteinase; Cathepsin; (Rat keratinocyte) (Tanabe, H. (1094) 281)

Diffusion coefficient
Membrane transport; Interfacial transport; Octanol/water interface; Unstirred layer thickness; Liquid-liquid extraction; Octanol/water partition coefficient (Miller, D.M. (1065) 75)

Difluoromethyl ornithine
Polyamine; Ornithine decarboxylase; Pancreatic growth; Thyroxine; Enzyme (Lin, C.-H. (1093) 65)

Digitonin-permeabilization
Phospholipid biosynthesis; Cytochalasin; Colchicine; Calcium; EGTA; Verapamil; Rat glioma cell (George, T.P. (1084) 185)

Diheme cytochrome
Primary structure; Sequence; Cytochrome *c*; Cytochrome, diheme (Van Beeumen, J. (1058) 56)

Dihomo-γ-linolenic acid
Cardiolipin; Fat deficiency; Fatty acid positional distribution; Palmitoleic acid series (Wolff, R.L. (1082) 136)

Dihomo-γ-linolenic acid (20:3($n-6$))
Δ^5-Desaturation; Incorporation; Arachidonic acid (20:4($n-6$)); Rat liver microsome (Blond, J.P. (1084) 255)

Dihydro-1,4-benzothiazine
Melanogenesis inhibition; Sulfhydryl compound; 1,3-Thiazolidine; Schiff base (Napolitano, A. (1073) 416)

Dihydrofolate reductase
Protein conformation; NADPH binding; Spectrofluorimetry; (Bovine liver) (Rimet, O. (1076) 435)

Bound substrate; Stoichiometry; Affinity chromatography (Williams, E.A. (1078) 47)

Dihydrofolate reductase gene
Drug resistance; Gene amplification (Hamlin, J.L. (1087) 107)

Dihydrolanosterol
Cytochrome *P*-450 substrate recognition; Lanosterol side chain; Lanosterol 14α-demethylase; Lanosterol derivative; (Yeast microsome) (Aoyama, Y. (1081) 262)

Dihydrolipoamide acyltransferase
2-Oxo acid dehydrogenase complex; Mitochondrial ribosomal protein; Protein sequence similarity (Russell, G.C. (1076) 225)

Dihydropyridine
Platelet; Platelet membrane potential; Platelet aggregation; Calcium ion, intracellular; Calcium ion channel; Divalent cation; (Human blood) (Palés, J. (1064) 169)

Dihydropyridine receptor
Cardiac sarcolemma; Calcium ion binding; Glycoprotein; Antigen (Tuana, B.S. (1091) 236)

Dihydropyridine sensitivity
Chromaffin cell; Fura-2; Lead ion influx; Calcium ion channel; Voltage dependence (Tomsig, J.L. (1069) 197)

Dihydrotesterone
Steroid hormone; Lipoprotein; HDL; Androstenediol; Dehydroepiandrosterone; Estradiol; Pregnenolone; Progesterone (Leszczynski, D.E. (1083) 18)

3,4-Dihydroxybenzaldehyde
3,4-Dihydroxymandelic acid; Oxidative decarboxylation; *p*-Benzoquinone methide; Electrochemical oxidation; *o*-Benzoquinone (Czapla, T.H. (1077) 400)

11,12-Dihydroxyicosatetraenoic acid
Structure determination; Leukotriene; Arachidonic acid; (Human platelet) (Westlund, P. (1081) 301)

5,6-Dihydroxyindole
Melanogenesis; Tyrosinase; Peroxidase; 5,6-Dihydroxyindole oligomer (D'Ischia, M. (1073) 423)

5,6-Dihydroxyindole oligomer
Melanogenesis; Tyrosinase; Peroxidase; 5,6-Dihydroxyindole (D'Ischia, M. (1073) 423)

3,4-Dihydroxymandelic acid
Oxidative decarboxylation; *p*-Benzoquinone methide; Electrochemical oxidation; 3,4-Dihydroxybenzaldehyde; *o*-Benzoquinone (Czapla, T.H. (1077) 400)

1,25-Dihydroxyvitamin D-3
Alkaline phosphatase; mRNA; cDNA; (Rat intestine) (Strom, M. (1090) 299)

C5a receptor; cyclic AMP-dependent protein kinase; Protein kinase C; Prostaglandin E_2 (Rubin, J.E. (1091) 87)

Skeletal muscle; G protein; Calcium uptake; Fluoride (De Boland, A.R. (1094) 238)

1α,25-Dihydroxyvitamin D-7
Vitamin D; 24-*epi*-1α,25-Dihydroxyvitamin D – 2; Calcium metabolism; Leukemia differentiation (Sato, F. (1091) 188)

24-*epi*-1α,25-Dihydroxyvitamin D-2
Vitamin D; 1α,25-Dihydroxyvitamin D-7; Calcium metabolism; Leukemia differentiation (Sato, F. (1091) 188)

1,25-Dihydroxyvitamin D-3 receptor
Steroid hormone; Retinoic acid; Triiodothyronine; Oncogene; (Human osteosarcoma cell) (Mahonen, A. (1088) 111)

4,4′-Diisothiocyanatodihydrostilbene-2,2′-disulfonic acid
DIDS; Covalent binding; Sodium/phosphate cotransporter; Brush-border membrane vesicle; (Rat) (Azzarolo, A.M. (1069) 70)

4,4-Dimethyl-5α-cholest-8-en-3β-ol
Aminotriazole; Cholesterol; 4α-Methyl-5α-cholest-7-en-3β-ol; Intermediate; Peroxisome (Hashimoto, F. (1086) 115)

Dimethylethanolamine
Phosphatidylcholine; Catabolism; Monomethylethanolamine; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 178)

5,5-Dimethylpyrroline *N*-oxide
Spin trapping; EPR; Superoxide; Free radical; Hydrogen peroxide; Hydroxyl radical (Britigan, B.E. (1075) 213)

Dimethyl suberimidate
Phospholipid phase transition; Phosphatidylethanolamine; Fluid-fluid immiscibility; Cross-linking (Roth, M.R. (1063) 242)

Dimethyl sulfoxide
ATPase, Na^+/K^+-; Phosphatase, K^+-; Choline; Oligomycin; Sodium ion; Potassium occlusion (Robinson, J.D. (1069) 281)

Infrared spectroscopy; Conformation; Protein denaturation (Jackson, M. (1078) 231)

Dimyristoylphosphatidylcholine
Melittin; [Ala-14]Melittin; Vesicle to micelle transition; NMR, ^2H-; Freeze-fracture; Electron microscopy (Dempsey, C.E. (1061) 175)

Liposome; Insulin; Lytic action; Monomyristoylphosphatidylcholine; Enthalpic change; Gel-liquid crystalline transition; Phase transition (Senisterra, G.A. (1064) 148)

Dimyristoylphosphatidylglycerol
Calcium ion–lipid interaction; Electric field effect; Lipid phase transition; Phase diagram (Thürk, M. (1067) 153)

Dinucleoside polyphosphate
Diadenosine 5′,5‴-P^1,P^3-triphosphate; Dinucleoside triphosphatase; Phosphodiesterase I; (Brain) (García-Agúndez, J.A. (1073) 402)

Dinucleoside triphosphatase
Diadenosine 5′,5‴-P^1,P^3-triphosphate; Dinucleoside polyphosphate; Phosphodiesterase I; (Brain) (García-Agúndez, J.A. (1073) 402)

Dioleoylphosphatidylcholine
Pore formation; Channel gating; Peptide–lipid interaction; Melittin (Pawlak, M. (1062) 94)

Pristane; Alkane; Liposome; Plasmacytomagenesis; NMR; DSC (Gawrisch, K. (1070) 409)

Dioxygen formation
Bromoperoxidase; Vanadium bromoperoxidase; Vanadium prosthetic group; Steady state kinetics; (*M. pyrifera*); (*F. distichus*) (Soedjak, H.S. (1079) 1)

Dioxygen solubility
Winkler titration; Phospholipid bilayer; DMPC; Coulometric titration (Smotkin, E.S. (1061) 33)

Dipalmitoylphosphatidic acid
Poly(L-lysine); Electron density profile; Hydrocarbon chain packing X-ray diffraction (Takahashi, H. (1069) 229)

Dipalmitoylphosphatidylcholine
Liposome; Ascorbate oxidase; Protein–lipid interaction; Freeze-fracture (Dini, L. (1062) 108)

Saccharide; Liposome; Sugar binding; Sugar exclusion; DSC (Crow L.M. (1064) 267)

Phosphatidylcholine transfer protein; Apical membrane; Basolateral membrane; (MDCK cell) (Zlatkine, P. (1065) 225)

Hydration; Phase behavior (Rudolph, A.S. (1066) 90)

Lamellar structure; Neutron diffraction; Disjoining pressure (Tallian, S.A. (1070) 143)

Dipeptide
Aqueous two-phase system; Partition coefficient; Poly(ethylene glycol); Free volume (Eiteman, M.A. (1073) 451)

Dipeptidyl peptidase IV
Substrate specificity inhibition (Rahfeld, J. (1076) 314)

Diphenylhexatriene
Sterol–phospholipid interaction; Membrane fluidity; Plasma membrane; Membrane organization; (Plant) (Cooke, D.T. (1061) 156)

1,3-Diphenylisobenzofuran
Singlet oxygen; Phospholipid membrane; Hydrogen peroxide; Hypochlorite (Wozniak, M. (1082) 94)

Diphosphatidylglycerol
Phospholipid; Cardiolipin; Deoxycardiolipin; Hydrogen bonding; FTIR (Hübner, W. (1066) 166)

Dipole potential
Nigericin; Tributyltin; Phloretin; Bilayer lipid membrane; Ionophore (Antonenko, Y.N. (1070) 474)

Dipyridamole
Nucleoside transport; Nitrobenzylthioinosine; *p*-Chloromercuriphenylsulfonate; (Hagfish red blood cell) (Fincham, D.A. (1069) 123)

Directed mutagenesis
Photosystem I; Gene *psaB*; *psaB* gene; Cyanobacterium; (*A. variabilis*) (Toelge, M. (1060) 233)

Direct repeat
Heteroduplex; Complementary palindrome; Somatic mutation; V-gene; Clonal selection (Rogozin, I.B. (1089) 175)

Discrete water layer
Membrane; X-ray diffraction (Murthy, N.S. (1062) 172)

Disjoining pressure
Dipalmitoylphosphatidylcholine; Lamellar structure; Neutron diffraction (Tatulian, S.A. (1070) 143)

Dissociation constant
Acetylcholinesterase; Quasi-equilibrium; Computer simulation; Juxtaposal modulatory site (Salih, E. (1073) 183)

Distal histidine
Cyanogen bromide-modified myoglobin; Magnetic circular dichroism; Pentacoordinate ferric heme; Myoglobin; (*Aplysia*) (Bracete, A.M. (1080) 264)

Distance geometry
Echinomycin; NMR; Three-dimensional structure (Yu, C. (1075) 141)

Disulfide
Tubulin; Microtubule assembly; Thioredoxin; Sulfhydryl; (Bovine brain) (Khan, I.A. (1076) 289)

Disulfide bridge
NADP-malate dehydrogenase; Protein structure; (*P. sativum* chloroplast) (Scheibe, R. (1076) 1)

Dithiothreitol
Carbonic anhydrase; Sulfonamide binding; Quaternary structure; (*C. reinhardtii*) (Husic, H.D. (1078) 35)

Adenylate cyclase activation; Polyamine; Calcium ion; EDTA; cyclic AMP binding (*D. discoideum*) (Oyama, M. (1092) 85)

Heparin; Growth factor; Plasma; (Liver) (Nagasaki, T. (1094) 330)

Dityrosine
Lipid peroxy radical; α-Crystallin; Blue fluorescence; Cross-link; Cataract (Kikugawa, K. (1096) 108)

Diurnal variation
Cholesterol esterase; (Rat liver) (Martinez, M.J. (1085) 106)

Lipogenic enzyme; mRNA quantity; (Rat liver) (Fukuda, H. (1086) 261)

Divalent cation
Melittin; Triton X-100; Membrane pore; Electrorotation; Circular dichroism; Energy transfer (Alder, G.M. (1061) 111)

Platelet; Platelet membrane potential; Platelet aggregation; Calcium ion, intracellular; Calcium ion channel; Dihydropyridine; (Human blood) (Palés, J. (1064) 169)

Sodium ion channel; Amiloride sensitivity; pH effect; Membrane vesicle; (Pars rectum); (Rabbit proximal tubule) (Blokkebak-Poulsen, J. (1068) 125)

Divalent ion
Alkaline phosphatase; *p*-Nitrophenyl phosphate; Osseous matrix; Hydrophobic chromatography; (Rat) (Say, J.C. (1074) 256)

Diversity
Cystatin; β-Adrenergic agonist (isoproterenol); Submandibular gland; Saliva (Nishiura, T. (1077) 346)

D3112 left end
Transposable phage; Nucleotide sequence; Repressor protein; IHF; (*Pseudomonas*) (Autexier, C. (1088) 147)

DMPC
Dioxygen solubility; Winkler titration; Phospholipid bilayer; Coulometric titration (Smotkin, E.S. (1061) 33)

Acylgramicidin; Acylprotein; Gramicidin A; Monolayer; NMR; CD; HPLC (Vogt, T.C.B. (1069) 157)

DNA
Transfection; Polylysine; Drug delivery; Drug targeting; Gene therapy (Zhou, X. (1065) 8)

Liposome; Transfection; Gene replacement therapy (Hug, P. (1097) 1)

DNA acceptor site
Glucocorticoid-receptor complex (Seledtsov, I.A. (1089) 367)

DNA adduct
Anti-DNA antibody; DNA-psoralen; Psoralen; DNA crosslink; anti-DNA-psoralen antibody (Hasan, R. (1073) 509)

DNA alkylation
n-Bromoalkylphenanthridinium bromide; DNA binding; Antitumor activity (Wickham, G. (1073) 528)

DNA binding
n-Bromoalkylphenanthridinium bromide; DNA alkylation; Antitumor activity (Wickham, G. (1073) 528)

Arachidonic acid; Vitamin E; Lipid peroxidation; Arachidonic acid metabolism (Zhang, J.-R. (1085) 159)

Glucocorticoid receptor; Chromatin binding; Negative regulation; Heat shock protein; Transcriptional synergism (Muller, M. (1088) 171)

DNA methylase; Guanine O^6; DNA recognition (Hepburn, P.A. (1088) 341)

DNA binding activity
Numatrin; Nuclear matrix protein (Feuerstein, N. (1087) 127)

DNA binding protein
DNA uptake; Nucleotide uptake; (*N. crassa*) (Tóth, G. (1063) 247)

lac operon; Operon; Gene regulation (Khoury, A.M. (1087) 55)

Nuclear matrix protein; Polyacrylamide gel electrophoresis (Denovan-Wright, E.M. (1088) 25)

DNA-binding protein
Arylphorin gene; Stage-specific expression; (*Sarcophaga peregrina*) (Kim, J.W. (1089) 21)

DNA binding protein
Cell proliferation; Expression; mRNA level; Protein level (Yaneva, M. (1090) 181)

DNA binding site
Deoxyribonuclease; Phenylglyoxal; Arginine modification; DNA protection; (Bovine pancreas) (Liao, T.-H. (1079) 335)

DNA blot
Ultraviolet radiation; Pyrimidine dimer; Antibody binding; Enzyme immunoassay; Plasmid vector; Specific gene fragment; Bacterial mutant; DNA damage; Excision repair (Wani, A.A. (1090) 195)

DNA conformation
Carcinogen–DNA interaction; Monoclonal antibody (Tada, M. (1090) 29)

DNA crosslink
Anti-DNA antibody; DNA adduct; DNA-psoralen; Psoralen; anti-DNA-psoralen antibody (Hasan, R. (1073) 509)

DNA, cruciform
Replication; (Mammalian) (Bell, D. (1089) 299)

DNA damage
Singlet oxygen; Single-strand break; Thiol (Devasagayam, T.P.A. (1088) 409)

Ultraviolet radiation; Pyrimidine dimer; Antibody binding; Enzyme immunoassay; Plasmid vector; Specific gene fragment; DNA blot; Bacterial mutant; Excision repair (Wani, A.A. (1090) 195)

Copper; Hydroxyl radical (Sinha, B.K. (1096) 81)

Drug resistance; Topoisomerase II; Damage factor (Sinha, B.K. (1097) 111)

DNA element
Mobile DNA element; Retrotransposition (Tino, A. (1087) 262)

DNA intercalator
Chromatin structure; Ethidium bromide; DNAase I-hypersensitive site, β^A-Globin gene; β^A-Globin gene; (Chicken erythrocyte) (Zhu, J.-d. (1089) 158)

DNA methylase
Guanine O^6; DNA binding; DNA recognition (Hepburn, P.A. (1088) 341)

DNA methylation
genomic DNA; 5-Azacytidine; Sodium butyrate; Tumor cell line; (Human) (Cosgrove, D.E. (1087) 80)

Transcription inhibition; SV40; SV40 enhancer; TK gene; (*Xenopus* oocytes) (Götz, F. (1087) 323)

Histone; Chromatin (Caiafa, P. (1090) 38)

Hypomethylation; Testicular cancer; (Human) (Peltomäki, P. (1096) 187)

DNA modification
Helix perturbation; Carcinogen–DNA interaction (Fronza, G. (1087) 330)

Carbodiimide; Antibody binding; Enzyme immunoassay; Non-isotopic DNA detection; Synthetic oligomer (Wani, A.A. (1088) 259)

DNA phosphatase
DNA repair enzyme; Exonuclease; Apurinic/apyrimidinic endonuclease; Amino acid sequence; Priming enzyme (Seki, S. (1079) 57)

DNA polymerase δ
DNA polymerase ϵ; Eukaryotic DNA polymerase (Bambara, R.A. (1088) 11)

DNA polymerase ϵ
DNA polymerase δ; Eukaryotic DNA polymerase (Bambara, R.A. (1088) 11)

DNA polymerase-γ
Mitochondrial endonuclease; Endonuclease G; mtDNA; (Rat) (Houmiel, K.L. (1079) 197)

DNA protection
Deoxyribonuclease; Phenylglyoxal; Arginine modification; DNA binding site; (Bovine pancreas) (Liao, T.-H. (1079) 335)

DNA–protein interaction
Restriction endonuclease; Synthetic DNA duplex; Flanking sequence (Kubareva, E.A. (1088) 395)

DNA-psoralen
Anti-DNA antibody; DNA adduct; Psoralen; DNA crosslink; anti-DNA-psoralen antibody (Hasan, R. (1073) 509)

DNA recognition
DNA methylase; Guanine O^6; DNA binding (Hepburn, P.A. (1088) 341)

DNA repair
Poly(ADP-ribose) polymerase; Gene expression; Liver regeneration; Cell proliferation; DNA replication; Protein modification (Cesarone, C.F. (1087) 241)

Uracil-DNA glycosylase; Somatic cell hybridization (Muller, S.J. (1088) 197)

Cell cycle control; Proteolysis; Ribosome assembly; Stress response; Ubiquitin (Jentsch, S. (1089) 127)

Uracil-DNA glycosylase; Bloom's syndrome (Seal, G. (1097) 299)

DNA repair enzyme
Exonuclease; Apurinic/apyrimidinic endonuclease; DNA phosphatase; Amino acid sequence; Priming enzyme (Seki, S. (1079) 57)

DNA replication
Poly(ADP-ribose) polymerase; Gene expression; Liver regeneration; Cell proliferation; DNA repair; Protein modification (Cesarone, C.F. (1087) 241)

Exonuclease III; Plasmid pSC101 (Fueki, T. (1089) 325)

NFI; NFIII; Oct-1; Adenovirus (Coenjaerts, F.E.J. (1090) 61)

In vitro replication; Cell-free system; Replication origin; Semiconservative replication; Initiation (Pearson, C.E. (1090) 156)

Cell cycle; Calcium ion; Calmodulin; Calcium ion concentration, transient; Cytosolic free calcium concentration; Mitosis; Nuclear division (Anraku, Y. (1093) 169)

DNA replication initiation
Mammalian DNA replication; Replication origin; Autonomously replicating sequence; Early activated origin; Class of origin (Landry, S. (1088) 234)

DNA sequence
Isoamylase gene; Nucleotide sequence; Gene expression; (*P. amyloderamosa*) (Chen, J.H. (1087) 309)

Pregnancy zone protein; Cloning; (Human) (Devriendt, K. (1088) 95)

Lipase; Psychrotrophic bacterium; Antarctic bacterium (Feller, G. (1088) 323)

NADH : ubiquinone reductase; Complex I; (*Neurospora crassa*) (Nehls, U. (1088) 325)

Cytochrome *P*-450; Genetic polymorphism; (Human) (Ged, C. (1088) 433)

Interleukin-2; Lymphokine; Polymerase chain reaction (Goodall, J.C. (1089) 257)

Teicoplanin resistance; (*A. teichomyceticus*) (Sosio, M. (1089) 401)

Cholera toxin operon; (*Vibrio cholerae* classical strain 569B); (*Vibrio cholerae El Tor* strain) (Dams, E. (1090) 139)

DNA sequencing
*pur*H and *pur*D; T7 polymerase/promoter (Chopra, A.K. (1090) 351)

DNA sequencing (*Aspergillus niger* RH5344)
Polygalacturonase; Partial protein sequence; cDNA isolation (Ruttkowski, E. (1087) 104)

DNA strand break
Interferon γ; Poly(ADP-ribosylation); Macrophage activitation (Berton, G. (1091) 101)

Oxygen radical; Lipid peroxidation; Protein thiol oxidation; Poly(ADP-ribose) polymerase (Kirkland, J.B. (1092) 319)

DNA synthesis
Fluorouracil; Thymidylate synthase; Thymidine kinase; Liver regeneration; (Rat) (Tsukamoto, I. (1074) 52)

Cell cycle; Proteinase, trypsin-like; (HeLa cell) (Muramatu, M. (1087) 87)

Chlorambucil; Histone variant; Histone synthesis; S-phase; Hydroxyurea; Alkylating agent (Sourlingas, T.G. (1092) 298)

Hepatocyte; Conditioned medium; Growth factor; Secretion (Skouteris, G.G. (1095) 169)

DNA topoisomerase I
Mitochondrion; Human platelet; Camptothecin (Kosovsky, M.J. (1078) 56)

Enzyme purification; Spherulation; (*P. polycephalum*) (Staron, K. (1088) 36)

DNA topoisomerase II
Netropsin; (Mammalian) (Beerman, T.A. (1090) 52)

DNA transfer
Bleb formation; Electroinduced bleb; Cell deformation; Electrotransformation; Freeze-fracture; (*E. coli* membrane) (Sabelnikov, A.G. (1066) 21)

DNA uptake
DNA binding protein; Nucleotide uptake; (*N. crassa*) (Tóth, G. (1063) 247)

cDNA
Metallothionein; Polymerase chain reaction; Polymerase chain reaction; Tandem mass spectrometry; Cadmium; *N*-Acetylation; (Mollusc); (Oyster) (Unger, M.E. (1074) 371)

Sucrase-isomaltase; mRNA; Sucrose induction; Northern blot analysis; (Rat intestine) (Broyart, J.-P. (1087) 61)

Cytochrome oxidase; Subunit Vb; (Mouse) (Basu, A. (1087) 98)

Tropomyosin; Nonmuscle cell; 3′ Untranslated region (Takenaga, K. (1087) 101)

Testis; Creatine kinase (Garber, A.T. (1087) 256)

Horseradish peroxidase; Nucleic acid sequence; (*Armoracia rusticana*) (Bartonek-Roxå, E. (1088) 245)

Momorcharin; Ribosome inactivating protein; Trichosanthin (Ho, W.K.K. (1088) 311)

Precursor; Phospholipase A_2; Neurotoxin; (Snake) (Bouchier, C. (1088) 401)

Casein kinase II; Gene expression; (Mouse); (Pig) (Boldyreff, B. (1088) 439)

Ribosomal protein, L5; RNA-binding protein, 5S; (Chicken) (Kenmochi, N. (1088) 445)

Myoblast; cyclic AMP-dependent protein kinase; Cα catalytic subunit; (Rat) (Wiemann, S. (1089) 254)

Cytochrome *c* oxidase; Presequence; Nuclear gene (Smith, E.O. (1089) 266)

Glutathione *S*-transferase; Nucleotide sequence; Yeast; (*Issatchenkia orientalis*) (Tamaki, H. (1089) 276)

Cytochrome *c* oxidase; Subunit VI; Nucleotide sequence; (*Dictyostelium discoideum*) (Rizzuto, R. (1089) 386)

NADH:ubiquinone reductase; Mitochondrion; Sequence; (*Neurospora crassa*) (Van der Pas, J.C. (1089) 389)

Amino acid sequence; ATPase, F_1-; ATP synthase; (Human) (Kataoka, H. (1089) 393)

Fish metallothionein; Polymerase chain reaction; Sequence homology; 3′ Untranslated variation (Kille, P. (1089) 407)

Pollen; Polygalacturonase; (Maize) (Rogers, H.J. (1089) 411)

MHC class II molecule; RT1.B β chain; (Rat) (Syha-Jedelhauser, J. (1089) 414)

Cyanide-resistant respiration; Alternative oxidase; Nucleotide sequence; Mitochondrion; (*Hansenula anomala*) (Sakajo, S. (1090) 102)

Cytochrome *c* oxidase; Subunit IV; Nucleotide sequence; Cleavable presequence; Mitochondrion; (*Dictyostelium discoideum*) (Rizzuto, R. (1090) 125)

Alkaline phosphatase; mRNA; 1,25-Dihydroxyvitamin D-3; (Rat intestine) (Strom, M. (1090) 299)

Pyruvate dehydrogenase complex; Biliary cirrhosis; Polymorphism (Moehario, L.H. (1097) 128)

cDNA cloning
Growth hormone; Non-coding region; Molecular evolution (Yamakawa, M. (1087) 247)

Superoxide dismutase; Manganese enzyme; Amino acid sequence; Gene expression; (Human) (Church, S.L. (1087) 250)

α_1-Microglobulin; Tissue-specific gene expression; mRNA; Gene regulation; (Pig) (Tavakkol, A. (1088) 47)

Calpastatin; Inhibitor; Calpain; CANP; Calcium (Ishida, S. (1088) 436)

Proteosome; Gene family (Tamura, T. (1089) 95)

Glutamate dehydrogenase; Olivoponto-cerebellar atrophy; Amino acid sequence; Signal peptide; Gene expression; (Mouse) (Tzimagiorgis, G. (1089) 250)

Cell adhesion molecule; L1; Immunoglobulin superfamily; (Human neuron) (Kobayashi, M. (1090) 238)

cDNA isolation
Polygalacturonase; Partial protein sequence; DNA sequencing (*Aspergillus niger* RH5344) (Ruttkowski, E. (1087) 104)

cDNA library
Polymerase chain reaction; Sodium-D-glucose; Cotransport; (Rabbit kidney); (Rabbit intestine) (Morrison, A.I. (1089) 121)

Glutamine synthase; cDNA sequence; Liver; (Human) (Van den Hoff, M.J.B. (1090) 249)

cDNA sequence
Asialoglycoprotein receptor; Hepatic lectin; Galactose-terminated glycoprotein (Sanford, J.P. (1087) 259)

Heat shock protein; Chaperonin protein; Autoimmunity; GroEL related protein; (Mouse) (Venner, T.J. (1087) 336)

Protein phosphatase; Amino acid sequence; Isoform; Alternative splicing; (Human) (McPartlin, A.E. (1088) 308)

Cytochrome *P*-450; P450IIIA; (Dog); (*Liver*) (Ciaccio, P.J. (1088) 319)

Hepatic triacylglycerol lipase; Combined lipase deficiency; (Mouse) (Oka, K. (1089) 13)

Adrenal medulla; Chromaffin granule; Neuroendocrine protein (Bauer, J.W. (1089) 124)

FGF receptor; Tyrosine kinase; *bek*; *flg*; *bfr*; Soluble receptor; (Human) (Seno, M. (1089) 244)

Transferrin; Anion binding; Protein evolution (Banfield, D.K. (1089) 262)

Retinoic acid receptor; Embryogenesis; (Chick) (Nohno, T. (1089) 273)

Bone morphogenetic protein 2 (BMP-2); Evolutionary conservation; (*X. Laevis*) (Plessow, S. (1089) 280)

Vasoactive intestinal contractor (VIC); Precursor; Processing; Endothelin; (Mouse) (Saida, K. (1089) 404)

Erythrocyte; Membrane protein; Band 7; Protein structure analysis (Hiebl-Dirschmied, C.M. (1090) 123)

Glutamine synthase; Liver; cDNA library; (Human) (Van den Hoff, M.J.B. (1090) 249)

Tubulin; β-Tubulin isoform (Ahmad, S. (1090) 252)

Glycophorin; Variant; Sialoglycoprotein (Barton, P. (1090) 265)

anti-DNA-psoralen antibody
Anti-DNA antibody; DNA adduct; DNA-psoralen; Psoralen; DNA crosslink (Hasan, R. (1073) 509)

genomic DNA
DNA methylation; 5-Azacytidine; Sodium butyrate; Tumor cell line; (Human) (Cosgrove, D.E. (1087) 80)

lambda DNA
Low water system; Restriction enzyme (Hanley, A.B. (1074) 40)

mtDNA
Mitochondrial endonuclease; Endonuclease G; DNA polymerase-γ; (Rat) (Houmiel, K.L. (1079) 197)

mtDNA deletion
In situ hybridization; Cytochrome *c* oxidase-negative; Mitochondrial myopathy (Collins, S. (1097) 309)

recombinant DNA
Collagen; Gene expression; mRNA; (Mouse) (Metsäranta, M. (1089) 241)

DNAase I footprinting
Thryroglobulin gene; Gene expression; (Canine) (Donda, A. (1090) 235)

DNAase I-hypersensitive site, β^A-Globin gene
Chromatin structure; DNA intercalator; Ethidium bromide; β^A-Globin gene; (Chicken erythrocyte) (Zhu, J.-d. (1089) 158)

Docosahexaenoic acid
Arachidonic acid; Chylomicron; Icosapentanoic acid; Hepatic lipase; Lipoprotein lipase (Melin, T. (1075) 259)

Polyunsaturated fatty acid; Arachidonic acid; Fish oil; (Rat pineal gland) (Sarda, N. (1081) 75)

Peroxisomal β-oxidation; Beta oxidation, peroxisomal; Icosapentaenoic acid; Clofibrate; Phospholipid; (Rat. *hepatocyte)* (Grønn, M. (1081) 85)

($n-3$) Fatty acid; Icosapentaenoic acid; Osmotic fragility; Phospholipid; Erythrocyte (Hagve, T.-A. (1084) 251)

Docosahexaenoyl chain
Polyunsaturated acyl chain; Conformational property; Equilibrium flexibility; Computer simulation; Monte Carlo method (Rabinovich, A.L. (1085) 53)

Docosapentaeonate
Fatty acid retroconversion; Δ^4-Desaturation; Docosatetraenoate; Arachidonate; Icosapentaenoate; (Human skin fibroblast); (Retinoblastoma cell) (Rosenthal, M.D. (1083) 29)

Docosatetraenoate
Fatty acid retroconversion; Δ^4-Desaturation; Docosapentaeonate; Arachidonate; Icosapentaenoate; (Human skin fibroblast); (Retinoblastoma cell) (Rosenthal, M.D. (1083) 29)

Dopa
Tyrosinase; Melanin; Estradiol; 2-Hydroxyestradiol; Estradiol-2,3-quinone; FTIR (Jacobsohn, M.K. (1073) 1)

Cysteinyldopamine; Cysteinyldopa; Dopamine; Parkinson's disease; (Aging) (Carstam, R. (1097) 152)

L-Dopa
Melanogenesis; Melanin biosynthesis; Tyrosinase; Enzyme kinetics (Rodríguez-López, J.N. (1076) 379)

Dopamine
Cysteinyldopamine; Cysteinyldopa; Dopa; Parkinson's disease; (Aging) (Carstam, R. (1097) 152)

Dopamine β-hydroxylase
Synaptic vesicle; Cytochrome *b*-561; Synaptin/synaptophysin (Schmidle, T. (1060) 251)

DOTMA
Liposome; Stearylamine; BisHOP (Senior, J.H. (1070) 173)

***trans* Double bond**
Isomer; Conversion; Hydrogenation; Linoleic acid; Metabolism; (Mice) (Beyers, E.C. (1082) 275)

Double dioxygenation
α-Linolenic acid; Lipoxygenase; (Potato tuber) (Grechkin, A.N. (1081) 79)

Doxorubicin
Acidic phospholipid; Lipid order and mobility; Drug–membrane interaction; Fluorescence; NMR (De Wolf, F.A. (1096) 67)

Doxyl stearic acid
Nitroxide metabolism; Red blood cell; Free radical; Hemoglobin; Hypoxia (Minetti, M. (1074) 112)

DPH polarization
Temperature adaptation; Homeoviscous adaptation; Desaturase; Fluorescence (Wodtke, E. (1064) 343)

D2 polypeptide
Bicarbonate effect; Cyanobacterium; Photosystem II; Site-directed mutagenesis; (*Synechocystis* sp. PCC 6803) (Cao, J. (1059) 171)

Drug
Lipid bilayer; Phase transition; Phase diagram; Molecular interaction; Anesthetic; Density fluctuation; Interface (Jørgensen, K. (1062) 227)

Lipid bilayer; Phase transition; Anesthetic; Insecticide; Density fluctuation; Interface (Jørgensen, K. (1067) 241)

Drug delivery
Chemical crosslinker; CD4 protein; HIV; AIDS (Idziorek, T. (1062) 39)

Liposome; Phase partitioning; Prolonged liposomal half-life; Poly(ethylene glycol) (Senior, J. (1062) 77)

Amphotericin B; Pyranine; Ion current; Liposome (Peterson, R.P. (1064) 165)

DNA; Transfection; Polylysine; Drug targeting; Gene therapy (Zhou, X. (1065) 8)

Drug delivery system
Liposome; Ganglioside; Splenic macrophage (Liu, D. (1066) 159)

Liposome; Prolonged circulation; Protein drug; Peptide drug; Ganglioside G_{M1}; Ricin (Maruyama, K. (1070) 246)

Drug–membrane interaction
Doxorubicin; Acidic phospholipid; Lipid order and mobility; Fluorescence; NMR (De Wolf, F.A. (1096) 67)

Drug metabolism
N-Acetyltransferase; Arylamine; (Tonsil lymphocyte); (U937 cells); (HepG2 cells) (Coroneos, E. (1073) 593)

Drug oxidation
Methylglyoxal; Gluconeogenesis; Glutathione; Hepatocyte (Kalapos, M.P. (1092) 284)

Drug resistance
P-glycoprotein; Genetics; (Yeast) (Balzi, E. (1073) 241)

Glutathione; Glutathione transferase; Detoxification; Urinary bladder (Singh, S.V. (1074) 363)

Dihydrofolate reductase gene; Gene amplification (Hamlin, J.L. (1087) 107)

Gene amplification; Ribonucleotide reductase regulation; Hydroxyurea resistance (Hurta, R.A.R. (1087) 165)

Anthracycline; Adriamycin; Fluorescence; Cytoplasmic concentration (Frezard, F. (1091) 29)

Anti-tumor drug; (Human melanoma) (Schallreuter, K.U. (1096) 277)

DNA damage; Topoisomerase II; Damage factor (Sinha, B.K. (1097) 111)

Drug targeting
Liposome; Circulation time; Poly(ethylene glycol); Targeted drug delivery; Ganglioside (Klibanov, A.L. (1062) 142)

DNA; Transfection; Polylysine; Drug delivery; Gene therapy (Zhou, X. (1065) 8)

DSC
Lipid–cholesterol interaction; Model membrane; Transformed cell; Liposome (Kariel, N. (1062) 70)

Sphingomyelin; Lipid bilayer; Thermodynamics; X-ray diffraction (Maulik, P.R. (1062) 211)

Saccharide; Liposome; Dipalmitoylphosphatidylcholine; Sugar binding; Sugar exclusion (Crowe, L.M. (1064) 267)

Phosphatidylserine; Cholesterol; X-ray diffraction (Wachtel, E.J. (1066) 63)

Mixed interdigitated bilayer; Mixed-chain phosphatidylcholine; Phosphatidylcholine; Phase transition (Lin, H.-n. (1067) 17)

Pristane; Alkane; Dioleoylphosphatidylcholine; Liposome; Plasmacytomagenesis; NMR (Gawrisch, K. (1070) 409)

Sodium bis(2-ethylhexyl) phosphate; Binary system; Ternary system; Vesicle; Swollen micelle; Transmission electron microscopy; Interfacial tension (Nakache, E. (1074) 413)

AFGP; Thermal hysteresis; (Antarctic fish) (Hansen, T.N. (1079) 169)

Fluorescence depolarization; Homoserine lipid; Lipid phase transition; (*Chlamydomonas*) (Sato, N. (1082) 108)

Duchenne muscular dystrophy
sn-Glycero-3-phosphate; Choline transfer reaction; (Rat liver subcellular fraction) (Thompson, W. (1083) 207)

Duration
LHRH; Amplitude; LH; FSH; Cell culture; Pituitary (Kellom, T.A. (1092) 101)

Dye
Neuron; Membrane potential; Styryl dye; Fluorescence; Electrochromism; Solvatochromism (Fromherz, P. (1068) 149)

Dynamic light scattering
Monoacylglycerol; Phosphatidylcholine; Phase behavior; NMR, ^{31}P-; Freeze-fracture (Yin, C.-C. (1070) 33)

Denaturation; Protein folding; Small angle X-ray scattering; Cytochrome *c*; Random coil (Damaschun, G. (1078) 289)

Dynamic microtubule
Microtubule; Microtubule dynamic instability; Kinetic property (Martin, S.R. (1073) 555)

Dynamic model
Oxidative phosphorylation; Thermodynamics; Respiration (Korzeniewski, B. (1060) 210)

Dynamism
Substrate modulated interaction; Bienzyme complex; Specificity; Fructose bisphosphate (Vértessy, B.G. (1078) 236)

E

Early activated origin
DNA replication initiation; Mammalian DNA replication; Replication origin; Autonomously replicating sequence; Class of origin (Landry, S. (1088) 234)

Earthworm hemoglobin
Hemoglobin; Fluorescence; Front-face fluorometry; Subunit dissociation (Harrington, J.P. (1076) 351)

Echinocyte
Local deformation; Dielectrophoresis (Gass, G.V. (1093) 162)

Echinomycin
Distance geometry; NMR; Three-dimensional structure (Yu, C. (1075) 141)

Ectoenzyme
Nucleoside triphosphatase; ATPase, (Ca^{2+}-Mg^{2+})-; Small artery (Plesner, L. (1067) 191)

Nucleoside triphosphatase; ATPase, (Ca^{2+}-Mg^{2+})-; Small artery (Juul, B. (1067) 201)

ATPase, (Ca^{2+} + Mg^{2+})-, nonspecific; ATP diphosphohydrolase; ATPase; Plasma membrane; Myometrium (Magocsi, M. (1070) 163)

Aminoacylase; Renal dipeptidase; Glycolipid anchor; Glycosylphosphatidylinositol; (Pig kidney) (Greenhough, K.J. (1076) 364)

Ecto-protein kinase
Platelet phosphorylation; Ecto-protein phosphatase; ATP; Platelet activation; Platelet secretion; (Human platelet) (Naik, U.P. (1092) 256)

Ecto-protein phosphatase
Platelet phosphorylation; Ecto-protein kinase; ATP; Platelet activation; Platelet secretion; (Human platelet) (Naik, U.P. (1092) 256)

Edema induction
Amino acid sequence; Phospholipase A_2; Snake venom protein (Liu, C.-S. (1077) 362)

EDTA
Adenylate cyclase activation; Dithiothreitol; Polyamine; Calcium ion; cyclic AMP binding (*D. discoideum*) (Oyama, M. (1092) 85)

Efflux
Fibroblast; Cholesterol; Phospholipid; HDL (Bielicki, J.K. (1085) 7)

Efflux kinetics
Palmitic acid transport; Erythrocyte ghost (Bojesen, I.N. (1064) 297)

EF-hand
Parvalbumin; Fluorescence; Calcium binding (Permyakov, E.A. (1076) 67)

EGF
rRNA; Nucleolin; Primary cultured hepatocyte; Glucocorticoid; Insulin (Suzuki, N. (1092) 367)

Egg-white trypsin inhibitor
Ovomucoid; Structural domain; Conformation; Equilibrium studies; Kinetic studies; Protein denaturation (Das, B.K. (1076) 343)

EGTA
Phospholipid biosynthesis; Cytochalasin; Colchicine; Calcium; Verapamil; Digitonin-permeabilization; Rat glioma cell (George, T.P. (1084) 185)

Egtved virus
G protein; Rhabdovirus; Viral hemorrhagic scepticaemia virus; (Fish) (Thiry, M. (1090) 345)

Ehrlich ascites tumor cell
Creatine depletion; Proliferation (Ohira, Y. (1097) 117)

Eicosa *see* **Icosa**

Elastase
Suicide substrate; Halomethyldihydrocoumarin; Bis(4-acyloxyphenyl)methane (Vilain, A.-C. (1076) 401)

Elastase inhibitor
SKALP; Skin-derived antileukoproteinase; Proteinase inhibitor; Enzyme inhibitor; Psoriasis (Schalkwijk, J. (1096) 148)

Electrical breakdown
Bipolar lipid; Planar lipid membrane (Melikyan, G.B. (1068) 245)

Electrical field
Actin; Cell protrusion; Dielectrophoresis (Popov, S.V. (1066) 151)

Electric field effect
Electron transport; Oxygen-evolving complex; Photosystem II; Luminescence; (Spinach chloroplast) (Vos, M.H. (1056) 27)

Stark effect; Antenna complex; Light harvesting complex; Energy transfer (Gottfried, D.S. (1059) 63)

Stark effect; Carotenoid; Carotenoid bandshift (Gottfried, D.S. (1059) 76)

Calcium ion–lipid interaction; Dimyristoylphosphatidylglycerol; Lipid phase transition; Phase diagram (Thürk, M. (1067) 153)

Electric organ
Sodium–calcium ion exchange; Calcium ion regulation; Calcium ion transport; Synaptic membrane; (*T. ocellata*) (Tessari, M. (1066) 208)

Electrochemical oxidation
3,4-Dihydroxymandelic acid; Oxidative decarboxylation; *p*-Benzoquinone methide; 3,4-Dihydroxybenzaldehyde; *o*-Benzoquinone (Czapla, T.H. (1077) 400)

Electrochemical reduction
NMR, ^{1}H-; Nucleotide structure; Nicotinamide adenine nucleotide (Ragg, E. (1076) 37)

NMR; Conformation analysis; Nicotinamide adenine nucleotide (Ragg, E. (1076) 49)

Electrochromic absorption change
Charge separation; Chlorophyll fluorescence; Thylakoid potential; Time constant (Dau, H. (1057) 337)

Electrochromism
Chlorophyll *a* monomer; Special pair; Charge transfer; P700; Stark effect (Krawczyk, S. (1056) 64)

ATP synthesis; CF_0-F_1 activation; P515; Proton domain; Chloroplast (Ooms, J.J.J. (1056) 293)

Neuron; Membrane potential; Dye; Styryl dye; Fluorescence; Solvatochromism (Fromherz, P. (1068) 149)

Electroencephalogram
Perfused brain; Tissue space; Oxygen consumption; (Rat) (Harvey, S.A.K. (1073) 486)

Electrofusion
Evacuolated plant protoplast; Selectable marker; Hybrid enrichment; Hypo-osmolar medium (Pfister, E. (1062) 13)

Dielectrophoresis; Erythrocyte; Hemi-fusion (Song, L. (1065) 54)

Electrogenicity
Peptide transport; Substrate specificity; Proton gradient; Iodolabeled peptide; Brush-border vesicle; (Rat kidney) (Tiruppathi, C. (1069) 14)

Electroinduced bleb
Bleb formation; Cell deformation; DNA transfer; Electro-transformation; Freeze-fracture; (*E. coli* membrane) (Sabelnikov, A.G. (1066) 21)

Electroinsertion
Erythrocyte; Biotinylation; Flow cytometry; Life-span (Mouneimne, Y. (1066) 83)

Electrolyte transport
Calcium ion; Protein kinase C; Arachidonic acid metabolism; Prostaglandin; Enterotoxin; (Rat) (Khurana, S. (1097) 171)

Electron density profile
Dipalmitoylphosphatidic acid; Poly(L-lysine); Hydrocarbon chain packing; X-ray diffraction (Takahashi, H. (1069) 229)

Electron diffraction
ATPase, Ca^{2+}-; Crystallization; Sarcoplasmic reticulum; (Rabbit) (Varga, S. (1070) 374)

Electron donor
Nitrogenase reduction; Ferredoxin; (*R. capsulatus*) (Hallenbeck, P.C. (1057) 97)

Electronic absorption spectra
Cytochrome *P*-450; High-spin/low-spin equilibrium; Spin state (Jung, C. (1076) 130)

Electron microscopy
Chlorosome; Immunogold labeling; (*Cf. aurantiacus*, *Cb. limicola*, *P. aestuarii*) (Wullink, W. (1060) 97)

Melittin; [Ala-14]Melittin; Dimyristoylphosphatidylcholine; Vesicle to micelle transition; NMR, ^{2}H-; Freeze-fracture (Dempsey, C.E. (1061) 175)

Lipid polymorphism; Cryo-electron microscopy (Frederik, P.M. (1062) 133)

Staphylococcal α-toxin; Membrane permeabilization; Toxin oligomerisation; Adrenocortical Y1 cell; Platelet; Liposome (Thelestam, M. (1062) 245)

Vesicle formation; Membrane skeleton; pH, intracellular; Temperature; (Humanerythrocyte) (Lelkes, G. (1065) 135)

Circumsporozoite protein; Immunogold electron microscopy; Lipid A; Liposome; Macrophage; Phagocytosis; Liposomal malaria antigen (Verma, J.N. (1066) 229)

Electron paramagnetic resonance
Cytochrome *c* oxidase; Ligand binding; Cyanide; Formate; Halide; (Bovine heart) (Moody, A.J. (1059) 189)

Radical formation; Radiation damage; Cisplatin; (Chinese hamster ovary cell line) (Halpern, H.J. (1093) 121)

Electron spin resonance
Myoglobin; Hydrogen peroxide; Radical; Phenoxyl; Peroxide; Ferryl (Davies, M.J. (1077) 86)

Nucleic acid; Nitroxide; Single-stranded DNA binding protein; (*E. coli*) (Bobst, E.V. (1078) 199)

Electron transfer
Photosynthesis; Reaction center; Genetic modification; Resonance Raman spectrum; Pigment–protein interaction (Peloquin, J.M. (1056) 85)

Photosynthesis; Reaction center; Parallel sequential-superexchange mechanism; (Bacteria) (Bixon, M. (1056) 301)

Respiratory pathway, alternative; Quinone; (*C. parapsilosis*) (Camougrand, N.M. (1057) 124)

Reaction center; Photosynthetic bacterium; (*Chl. aurantiacus*) (Becker, M. (1057) 299)

Photosystem II; Reaction center; Reconstitution (Chapman, D.J. (1057) 391)

Marcus theory; Redox potential; Cytochrome *c* (Cusanovich, M.A. (1058) 67)

Cytochrome *c*; Proton movement; Energy transduction (Williams, R.J.P. (1058) 71)

Cross-linking; Photosynthetic particle; Ferredoxin; Flavoprotein; (Cyanobacterium); (*Anabaena* PCC 7119) (Pueyo, J.J. (1059) 149)

NADH : ubiquinone reductase; Quinone; Nitrocompound (Bironaite, D.A. (1060) 203)

Lysozyme; Intramolecular reaction; Protein dynamics; (Hen egg-white) (Weinstein, M. (1076) 173)

NADH : ubiquinone reductase; Complex I; Mitochondrion; Sequence; (*Neurospora crassa*) (Weidner, U. (1089) 391)

Electron transfer chain
Osmotic pressure; Membrane function; Sugar transport; (*E. coli*) (Houssin, C. (1056) 76)

Electron transfer kinetics
Photosystem II; Oxygen evolution; Manganese binding; Flash absorption spectroscopy; $P680^{+}$ reduction kinetics (Hoganson, C.W. (1057) 399)

Electron transfer protein
Cytochrome *c*; HiPIP; (Purple bacterium) (Bartsch, R.G. (1058) 28)

Electron transport
Oxygen-evolving complex; Photosystem II; Luminescence; Electric field effect; (Spinach chloroplast) (Vos, M.H. (1056) 27)

Electropermeabilization
Gene transfection; Electroporation; Radiofrequency electric field; COS-M6 cell; CV-1 cell; *β-gal* gene (Zheng, Q. (1088) 104)

Transformation; ATP leakage; (*S. typhimurium*); (*E. coli*) (Sixou, S. (1088) 135)

Gene transfection: Electroporation; Radiofrequency electric field (Chang, D.C. (1092) 153)

Electrophoresis
ATPase, Na^{+}/K^{+}-; Isoform; Sequence analysis; Monoclonal antibody (Cortas, N. (1070) 223)

Electrophoretic mobility
1-Palmitoyl-2-oleoylphosphatidylcholine vesicle; Melittin; Electrostatic effect; Potential change; CD; NMR, ^{31}P- (Beschiaschvili, G. (1068) 195)

Electroporation
Erythrocyte membrane; Oxidative modification; Diamide; Leakage; Colloid-osmotic lysis; Phloretin (Deuticke, B. (1067) 111)

Liposome binding; Cell membrane (Chernomordik, L.V. (1070) 193)

Gene transfection; Electropermeabilization; Radiofrequency electric field; COS-M6 cell; CV-1 cell; *β-gal* gene (Zheng, Q. (1088) 104)

Electroporation in vivo
Transformation; Mouse skin (Titomirov, A.V. (1088) 131)

Electrorotation
Melittin; Triton X-100; Membrane pore; Divalent cation; Circular dichroism; Energy transfer (Alder, G.M. (1061) 111)

Electrostatic effect
1-Palmitoyl-2-oleoylphosphatidylcholine vesicle; Melittin; Potential change; CD; NMR, ^{31}P-; Electrophoretic mobility (Beschiaschvili, G. (1068) 195)

Electrostatic force
Erythrocyte; Cytoskeleton; Spectrin; (Human) (Kahana, E. (1066) 1)

Electrostatic interaction
Magainin; Acidic lipid membrane; Binding isotherm; Membrane fluidity; Secondary structure (Matsuzaki, K. (1063) 162)

α-Chymotrypsin; Acyl transfer; Charged nucleophile; Salt effect; Cation binding (Schellenberger, V. (1078) 1)

α-Chymotrypsin; Acyl transfer; Charged nucleophile; Salt effect (Schellenberger, V. (1078) 8)

Electrostatic map, three-dimensional
PAF agonist; PAF antagonist; Conformation; Synthesis (Lamotte-Brasseur, J. (1085) 91)

Electro-transformation
Bleb formation; Electroinduced bleb; Cell deformation; DNA transfer; Freeze-fracture; (*E. coli* membrane) (Sabelnikov, A.G. (1066) 21)

ELF electric field
Neurotransmitter; Amino acid; Striatum (Zecca, L. (1075) 1)

ELISA
Antigen–antibody interaction; β-Casein; Monoclonal antibody; Peptide–protein interaction; Proteolysis (Kobayashi, T. (1077) 11)

Leukotriene; RIA; Monoclonal antibody; Macrophage (Reinke, M. (1081) 274)

Elongase
Linolenic acid; Fatty acid metabolism (Chapkin, R.S. (1085) 365)

Elongation factor
Protein synthesis; tRNA; Mitochondrion; Ribosome (Kumazawa, Y. (1090) 167)

Elongation factor 2
Manganese; Phosphorylation; Pancreas; Calmodulin (Knight, S.A.B. (1092) 196)

Initiation factor-2; Microcystin; Okadaic acid; Protein phosphorylation; Protein synthesis (Redpath, N.T. (1093) 36)

Elongation factor Tu
Kirromycin; EPR; Antibiotic binding; (*B. stearothermophilus*) (Kalbitzer, H.R. (1078) 133)

Protein synthesis; Genetic engineering; Site-directed mutagenesis; (*E. coli*) (Pieper, U. (1087) 147)

Embryogenesis
Retinoic acid receptor; cDNA sequence; (Chick) (Nohno, T. (1089) 273)

Enantioselectivity
Microemulsion-based gel; Lipase; Cryoenzymology (Rees, G.D. (1073) 493)

Encapsulated substrate
Lipoxygenase; Cyclodextrin; (Soybean) (Jyothirmayi, N. (1083) 193)

Encapsulation
Liposome formation; Synthetic lipid (Assadullahi, T.P. (1083) 271)

Encephalomyocarditis
RNA; Viral RNA; Ribosome binding; Picornavirus; Initiation factor (Scheper, G.C. (1089) 220)

Encephalomyocarditis virus
Translation initiation; capped mRNA; (Rabbit reticulocyte lysate) (Jackson, R.J. (1088) 345)

Endo-β-glucanase
Enzyme purification; (*S. sclerotiorum*) (Waksman, G. (1073) 49)

Endocytosis
Leupeptin; Receptor (Tsuji, A. (1078) 85)

HDL; Internalization; Non-lysosomal compartment; Resecretion; Fluorescein; pH probe (Rahim, A.T.M.A. (1082) 195)

Glycated polylysine-iron complex; LDL; Lipid peroxidation; Macrophage; Antioxidant (Sakurai, T. (1086) 273)

Sulfation; Cell retraction; Signal transduction; Sodium ion/proton antiport (Sit, K.H. (1092) 180)

Endo-exonuclease
Nucleus; (Rat liver) (Hibino, Y. (1088) 305)

Endogenous apical marker
Cell-cell contact; Polarization; Tumor promotor; (LLC-PK_1) (Van Den Bosch, L. (1092) 244)

Endogenous peptide
ATPase inhibitor; SPAI-1; ATPase, Na^+/K^+-; Peptide; (Porcine duodenum) (Ishizuka, N. (1069) 259)

Endogenous photosensitizer
UVA light; Peroxidation; Membrane; Fibroblast (Morlière, P. (1084) 261)

Endoglucanase
Monoclonal antibody; Cellobiohydrolase; Mass spectrometry; (*T. reesei*) (Luderer, M.E.H. (1076) 427)

Endometrium
Protein kinase C; Protein phosphorylation; Prolactin; Relaxin; (Human) (Kalbag, S.S. (1094) 85)

Endonuclease G
Mitochondrial endonuclease; mtDNA; DNA polymerase-γ; (Rat) (Houmiel, K.L. (1079) 197)

Endopeptidase
D1/D2/cyt *b*-559; Reaction center; Photosystem II; Serine (Misra, A.N. (1059) 239)

Metalloenzyme; Latent form; Immunological characterization; (mouse) (Flannery, A.V. (1079) 119)

Endoplasmic reticulum
Phosphatidylinositol; Phosphatidylinositol transport protein; Plasma membrane; (Rat liver) (Borror, C.A. (1068) 52)

Vesicular transport; GTP-binding protein; *SAR1*; *(Saccharomyces cerevisiae)* (Nishikawa, S.-i. (1093) 135)

Endothelial cell
Hyaluronan; Hyaluronic acid; Receptor; Membrane protein; Polyclonal antibody; (Rat liver) (Forsberg, N. (1078) 12)

ATP diphosphohydrolase; Smooth muscle cell; Vascular tone; Platelet aggregation; (Bovine aorta) (Côté, Y.P. (1078) 187)

Membrane fatty acid composition; Procoagulant activity; Polymorphonuclear leukocyte adherence; Icosanoid production; Arachidonic acid (Vossen, R.C.R.M. (1083) 243)

15-Hydroxyicosatetraenoic acid; Hydroxyoctadecadienoic acid (Baer, A.N. (1085) 45)

Platelet activating factor; 1-*O*-Acyl-2-*O*-acetyl-*sn*-glycero-3-phosphocholine; Phospholipid molecular species; Mass spectrometry; GC-MS (Clay, K.L. (1094) 43)

Plasminogen activator inhibitor (type 1); Protein kinase C; cyclic AMP (Slivka, S.R. (1094) 317)

Hyaluronic acid synthesis; Hyaluronic acid synthetase inhibitor; Transformation (Amanuma, K. (1092) 336)

Endothelin
Vasoactive intestinal contractor (VIC); cDNA sequence; Precursor; Processing; (Mouse) (Saida, K. (1089) 404)

Receptor; Aorta; Kidney; Heart; Cross-linking; (Bovine) (Bednar, D.L. (1092) 226)

Endothelium
PAF synthesis; Thrombin; Calcium; Protein kinase C; cyclic AMP (Heller, R. (1093) 55)

Endotoxin
Arachidonic acid; Thromboxane; Protein synthesis; Protein kinase C; Macrophage; (*S. enteritidis*) (Geisel, J. (1085) 15)

Lipopolysaccharide; Calcium ion; pH; Fura-2; BCECF; (Hepatocyte) (Portolés, M.T. (1092) 1)

Phosphatidylinositol kinase; (Rat liver) (Rodriguez de Turco, E.B. (1093) 216)

δ-Endotoxin
Ion channel; Calcium ion; Chloride; SF-9 cell; Fura-2; (*B. thuringiensis*) (Schwartz, J.-L. (1065) 250)

Endotoxin adsorption
Hydrophobic interaction; Affinity matrix (Hou, K.C. (1073) 149)

Energetic coupling
Sodium ion/glucose cotransport; Kinetics; Brush-border membrane; (Pig kidney) (Centelles, J.J. (1065) 239)

Energetic domain
Pepsin; Thermal denaturation (Makarov, A.A. (1078) 283)

Energy calculation
Enkephalin; D-Ala^2-enkephalin; Intramolecular electron transfer (Vesterman, B. (1079) 39)

Energy coupling
Proton gradient, localized, delocalized; (Thylakoid) (Renganathan, M. (1059) 16)

Oligomycin sensitivity conferring protein; ATP synthase; DCCD; Oligomycin; Proton translocation (Joshi, S. (1067) 255)

Energy coupling, localized, delocalized
Proton gradient; Uncoupler; Membrane domain; (Thylakoid) (Allnutt, F.C.T. (1059) 28)

Energy metabolism
Alanine metabolism; Model fitting; Enzyme kinetics; (Liver) (Bohnensack, R. (1073) 347)

Energy storage
Photosynthesis; Photosystems I & II; Optoacoustic spectroscopy; Light state transition; (Cyanobacteria) (Mullineaux, C.W. (1060) 315)

Energy transduction
Langmuir-Blodgett film; Bacterial reaction center; Photosynthetic bacterium (Alegria, G. (1057) 239)

Cytochrome *c*; Electron transfer; Proton movement (Williams, R.J.P. (1058) 71)

Molecular probe; Membrane potential; (Mitochondria); (Membrane) (Tran, T.V. (1059) 265)

Energy transfer
Senescence; Photosynthesis; Chlorophyll fluorescence; Photoacoustic spectroscopy (Gruszecki, W.I. (1056) 173)

Chlorosome; Bacteriochlorophyll; (*C. aurantiacus*); (Time-resolved picosecond spectroscopy) (Miller, M. (1057) 187)

Stark effect; Electric field effect; Antenna complex; Light harvesting complex (Gottfried, D.S. (1059) 63)

Pigment organization; Photosynthetic bacterium; Antenna complex; (*Chloroflexus aurantiacus*) (Griebenow, K. (1059) 226)

Phycobilisome; Photosynthesis; (Cyanobacterium); *(Synechococcus 7942)* (Bhalerao, R.P. (1060) 59)

Photosystem II; Reaction center; (*Synechocystis* 27170) (Post, A.F. (1060) 67)

Photosystem II; D_1-D_2-cyt-*b*-559 reaction center; Reaction center kinetics; Picosecond chlorophyll fluorescence; Photosynthesis; Charge separation (Roelofs, T.A. (1060) 237)

Melittin; Triton X-100; Membrane pore; Divalent cation; Electrorotation; Circular dichroism (Alder, G.M. (1061) 111)

Transferrin; Fluorescence quenching; Pentaammine ruthenium-histidine (Martin, D.M. (1076) 252)

Energy transfer kinetics
Fluorescence decay; Photosynthesis; Chlorophyll fluorescence; Exciton migration; Kinetic model (Beauregard, M. (1060) 271)

Energy transport
Mitochondrial oxidative phosphorylation; Cardiomyocyte; ADP diffusion; ADP compartmentation; Creatine; Creatine kinase system (Saks, V.A. (1074) 302)

Enkephalin
D-Ala^2-enkephalin; Intramolecular electron transfer; Energy calculation (Vesterman, B. (1079) 39)

Enkephalin processing
Kallikrein; Proenkephalin; HPLC (Mindroiu, T. (1076) 9)

Enterocyte
Purine metabolism; Absorption; Intestinal transport; (Guinea pig) (Gross, C.J. (1073) 260)

Enterocyte differentiation
Galactose; Brush-border enzyme; (Mouse intestine) (Smith, M.W. (1093) 144)

Enterohepatic circulation
Bile acid conjugation; 2-Fluoro-β-alanine (Zhang, R. (1096) 179)

Enterotoxin
Calcium ion; Protein kinase C; Arachidonic acid metabolism; Prostaglandin; Electrolyte transport; (Rat) (Khurana, S. (1097) 171)

Enthalpic change
Dimyristoylphosphatidylcholine; Liposome; Insulin; Lytic action; Monomyristoylphosphatidylcholine; Gel-liquid crystalline transition; Phase transition (Senisterra, G.A. (1064) 148)

Enzymatic assay
Phenylacetic acid; Acyl-CoA ligase; (*P. putida*) (Rodríguez-Aparicio, L.B. (1073) 431)

Enzymatic reactivity
Lipase; Organic solvent-soluble lipase; Thermostability; Detergent (Tsuzuki, W. (1083) 201)

Enzyme
N-Chloramine; Metal-catalyzed oxidation; Oxidative inactivation (Maier, K. (1079) 238)

Polyamine; Ornithine decarboxylase; Difluoromethyl ornithine; Pancreatic growth; Thyroxine (Lin, C.-H. (1093) 65)

Enzyme activation
ATPase, Na^+/K^+-; Potassium ion; Substrate binding (Cornelius, F. (1067) 227)

Citrate synthase; Spermine; Citric acid cycle; Polyamine (Yoshino, M. (1073) 200)

Adenine nucleotide; Guanylate cyclase; (Rat lung) (Gazzano, H. (1077) 99)

S-Adenosylmethionine synthetase; Product inhibition; Human lymphocyte; Phosphate; Pyrophosphate (De La Rosa, J. (1077) 225)

Progelatinase metalloproteinase, 72 kDa; Metalloproteinase; Activation; TIMP-2; (Human fibroblast) (Ward, R.V. (1079) 242)

Carnitine palmitoyltransferase; Malonyl-CoA; (Rat liver) (Ghadiminejad, I. (1085) 377)

Enzyme activity
Age; Glutathione *S*-transferase; Enzyme subunit; (Rat liver) (Carrillo, M.-C. (1077) 325)

Hepatic lipase; Immunoinhibition; Synthesis; Maturation; Glycosylation; (Rat hepatocyte) (Verhoeven, A.J.M. (1086) 49)

mRNA; Gene expression; Mitogen stimulation; Hypoxanthine phosphoribosyl transferase gene; (Human lymphocyte) (Steen, A.-M. (1088) 77)

Enzyme activity regulation
Enzyme characterization; AMP-deaminase; (Human uterine smooth muscle) (Nagel-Starczynowska, G. (1073) 470)

Enzyme characterization; AMP-deaminase; (Human uterine smooth muscle) (Nowak, G. (1078) 303)

Enzyme assay
Cytochrome oxidase; Development; (Rat brain) (Brown, G.C. (1057) 273)

Enzyme catalysis
EPR; Myeloperoxidase; Halide; Cyanide complex (Lee, H.C. (1076) 317)

Enzyme characterization
AMP-deaminase; Enzyme activity regulation; (Human uterine smooth muscle) (Nagel-Starczynowska, G. (1073) 470)

Acid phosphatase; Enzyme purification; (*P. chrysogenum*) (Haas, H. (1074) 392)

Glutathione transferase; Bacterium; (*S. marcescens*) (Di Ilio, C. (1077) 141)

AMP-deaminase; Enzyme activity regulation; (Human uterine smooth muscle) (Nowak, G. (1078) 303)

Lysophospholipase-transacylase; (*C. albicans*) (Takahashi, M. (1082) 161)

Carnitine acetyltransferase; (*S. cerevisiae*) (Kispal, G. (1085) 217)

Enzyme conformation
ATPase, Na^+/K^+-; Phosphorylation; Acetyl phosphate; Inorganic phosphate; (Pig kidney) (Berberián, G. (1063) 217)

Microsome; Glucose-6-phosphatase; Methylthioadenosine sulfoxide; Enzyme modification; Triton X-114; (Rat liver) (Speth, M. (1068) 217)

Glyceralde-3-phosphate dehydrogenase; Amino acid modification; Active site; Arginine modification; Thiol group; (Rabbit muscle) (Kuzminskaya, E.V. (1075) 123)

Enzyme crystallization
Erythrocyte plasma membrane; Calcium pump; ATPase, Ca^{2+}-; Enzyme solubilization; Nonionic detergent; (Porcine blood) (Pikuła, S. (1061) 206)

Enzyme deactivation
Protein kinase C; Phorbol ester (Robles-Flores, M. (1094) 77)

Enzyme entrapment
Small unilamellar vesicle; Polymer coated vesicle (Özden, M.Y. (1075) 102)

Enzyme evolution
Glutamate dehydrogenase; Coenzyme specificity; Primary sequence; Sequence comparison (Lilley, K.S. (1080) 191)

Enzyme immunoassay
Leukotriene; Acetylcholinesterase; (*E. electricus*) (Antoine, C. (1075) 162)

DNA modification; Carbodiimide; Antibody binding; Non-isotopic DNA detection; Synthetic oligomer (Wani, A.A. (1088) 259)

Ultraviolet radiation; Pyrimidine dimer; Antibody binding; Plasmid vector; Specific gene fragment; DNA blot; Bacterial mutant; DNA damage; Excision repair (Wani, A.A. (1090) 195)

Enzyme inactivation
ATPase, F_1-; 7-Chloro-4-nitrobenzofurazan; 5′-*p*-Fluorosulfonylbenzoylinosine (Bullough, D.A. (1057) 208)

Aminoacyl-tRNA synthetase; Proteolytic inactivation; Proteinase; (*S. cerevisiae*) (Larrinoa, I.F. (1073) 502)

L-Arginine amidinohydrolase; Arginase; Manganese enzyme; Thermostable enzyme; (*B. caldovelox*) (Patchett, M.L. (1077) 291)

Suicide substrate; Enzyme kinetics; Partition ratio (Funaki, T. (1078) 43)

12-Lipoxygenase; 12-Hydroxyicosatetraenoic acid; 13-Hydroxyoctadecadienoic acid; Hydroperoxy fatty acid; (Rat basophilic leukemia cell) (Van der Donk, E.M.M. (1081) 135)

Pancreatic lipase; Gastric lipase (Gargouri, Y. (1085) 322)

Protein phosphorylation; Sucrose-phosphate synthase; Protein kinase; (Spinach leaf) (Huber, S.C. (1091) 393)

Enzyme induction
Dehydroepiandrosterone; Peroxisome proliferation; (Rat liver) (Yamada, J. (1092) 233)

Enzyme induction by methionine
Wheat embryo; *S*-Adenosylmethionine synthetase; Stored mRNA; Enzyme synthesis, de novo (Mathur, M. (1078) 161)

Enzyme inhibition
Respiratory chain; Succinate-ubiquinone reductase; 3-Nitrosalicyl-*N*-alkylamide (Liu, C. (1057) 373)

Enzyme inhibitor
11β-Hydroxysteroid dehydrogenase; Corticosteroid metabolism; 11-Dehydrocorticosterone; Glycyrrhetinic acid; (Rat kidney) (Bühler, H. (1075) 206)

SKALP; Skin-derived antileukoproteinase; Elastase inhibitor; Proteinase inhibitor; Psoriasis (Schalkwijk, J. (1096) 148)

Enzyme intermediate
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Vanadate inhibition; (Frog muscle) (Vashchenko, V.I. (1079) 8)

Enzyme isoform
Phospholipase A_2; Heparin; (Porcine pancreas) (Diccianni, M.B. (1082) 85)

Enzyme kinetics
Microsomal chitinase; Zymogen; Antifungal agent; (*C. albicans*) (Dickinson, K. (1073) 177)

Alanine metabolism; Energy metabolism; Model fitting; (Liver) (Bohnensack, R. (1073) 347)

Carnitine palmitoyltransferase I; Albumin; Mitochondrion; Rat; Acyl-CoA binding to albumin (Richards, E.W. (1076) 23)

Melanogenesis; Melanin biosynthesis; Tyrosinase; L-Dopa (Rodríguez-López, J.N. (1076) 379)

Aldehyde reductase; Hammett plot; Transition state; (Human kidney) (Bhatnagar, A. (1077) 180)

Kinetic mechanism; Chemical mechanism; pH profile; Chemical modification (Karsten, W.E. (1077) 209)

Suicide substrate; Enzyme inactivation; Partition ratio (Funaki, T. (1078) 43)

Trypsinogen; Trypsin; Zymogen; Activation (García-Moreno, M. (1080) 143)

Progress curve; Experimental design; Michaelis-Menten kinetics; Kinetic analysis (Duggleby, R.G. (1080) 231)

Acyl-CoA : cholesterol acyltransferase; (HT29 cell); (Intestinal cell) (Viallard, V. (1085) 265)

Fatty acid; Cytidylyltransferase; Phosphatidylcholine synthesis; Membrane bound enzyme (Weinhold, P.A. (1086) 57)

Enzyme localization
ATP sulfurylase; Enzyme purification; Isoenzyme; (*Euglena*) (Li, J. (1078) 68)

Enzyme mechanism
Succinyl-CoA synthetase; Site-directed mutant; (*E. coli*) (Majumdar, R. (1076) 86)

Cytochrome *c* peroxidase; Two-fragment complex; Heme–heme interaction; (*P. aeruginosa*) (Ellfolk, N. (1080) 68)

Pyrophosphate hydrolysis; Gas-phase reaction; Ab initio calculation (Saint-Martin, H. (1080) 205)

Enzyme modification
Microsome; Glucose-6-phosphatase; Methylthioadenosine sulfoxide; Triton X-114; Enzyme conformation; (Rat liver) (Speth, M. (1068) 217)

RNA polymerase; Protein conformation (Ozoline, O.N. (1076) 387)

Enzyme multiplicity
γ-Glutamyltransferase; Seminal plasma; Glutathione; (Human) (Abe, S. (1077) 259)

Enzyme pathway
Lipoxygenase pathway; Hydroperoxide product; Plant enzyme; Fatty acid hydroperoxide (Gardner, H.W. (1084) 221)

Enzyme polymorphism
Steroid sulfatase; X-inactivation; X-linked ichthyosis (Shankaran, R. (1078) 251)

Enzyme purification
Endo-β-glucanase; (*S. sclerotiorum*) (Waksman, G. (1073) 49)

Neutral β-*N*-acetylglucosaminidase; Hexosaminidase C; (Carp blood) (Ueno, R. (1074) 79)

Hemorrhagic factor II; Snake venom; (*L. muta muta*) (Sánchez, E.F. (1074) 347)

Acid phosphatase; Enzyme characterization; (*P. chrysogenum*) (Haas, H. (1074) 392)

Copper protein; Uricase; Protein, copper; (*Chlamydomonas*) (Alamillo, J.M. (1076) 203)

β-Glucosidase; (Mushroom) (Sengupta, S. (1076) 215)

Thymidylate synthase; Gene expression; Recombinant DNA; NMR, ^{19}F-; (Mouse); (*E. coli*) (Zhang, H. (1077) 35)

Geranylgeranyl diphosphate synthase (Laferrière, A. (1077) 167)

ATP sulfurylase; Enzyme localization; Isoenzyme; (*Euglena*) (Li, J. (1078) 68)

20α-Hydroxysteroid dehydrogenase; (Rat ovary) (Noda, K. (1079) 112)

Proteinase; C5a; (*Streptococcus*, Group B); (Human) (Bohnsack, J.F. (1079) 222)

DNA topoisomerase I; Spherulation; (*P. polycephalum*) (Staron, K. (1088) 36)

Enzyme regulation
Protein kinase; Pyruvate kinase phosphorylation; Metabolic rate depression; Anoxia (Brooks, S.P.J. (1073) 253)

1-Anilinonaphthalene-8-sulfonic acid; Fluorometry; Nucleotide binding; Rubisco activase (Wang, Z.-Y. (1079) 263)

Enzyme release
ATP depletion; Calcium; Cell damage; Magnesium; Nickel; (Human fibroblast) (Kristensen, S.R. (1091) 285)

Enzyme solubilization
Erythrocyte plasma membrane; Calcium pump; ATPase, Ca^{2+}-; Enzyme crystallization; Nonionic detergent; (Porcine blood) (Pikuła, S. (1061) 206)

Enzyme specificity
Bile salt dependence; Lipase; Capelin oil; (Cod); (*Gadus morhua*); (Human) (Gjellesvik, D.R. (1086) 167)

Enzyme structure
Ribonuclease F_1; Ribonuclease T_1; 2′-GMP; Raman spectroscopy; Nucleotide conformation (Takeuchi, H. (1078) 307)

Enzyme-substrate inhibitor complex
Acetylcholinesterase; Noncompetitive inhibition; Inhibition by substrate; Regulatory site (Cohen, S.G. (1076) 112)

Enzyme subunit
Age; Glutathione *S*-transferase; Enzyme activity; (Rat liver) (Carrillo, M.-C. (1077) 325)

Enzyme synthesis, de novo
Wheat embryo; *S*-Adenosylmethionine synthetase; Stored mRNA; Enzyme induction by methionine (Mathur, M. (1078) 161)

Enzyme translocation
Cytidyltransferase; Choline glycerolipid synthesis; (Krebs-II ascite cell) (Tercé, F. (1084) 69)

Enzymic activity in situ
Glucocerebrosidase; Gaucher disease; Glucosylceramide lipidosis; Lysosomal hydrolase; Glycosphingolipidosis (Van Weely, S. (1096) 301)

Enzymic hydrolysis
Papain; QSAR; *N*-Benzoylglycine ester; SAR; Glycinate ester (Compadre, C.M. (1079) 43)

Enzymic mechanism
Superoxide production; Free radical (Cross, A.R. (1057) 281)

Enzymology
Tyrosine protein kinase; *lyn* gene product; Protein phosphorylation; Synthetic peptide; Cell regulation (Brunati, A.M. (1091) 123)

Acid phosphatase; Alkaline phosphatase; Synthetic peptide; Substrate specificity; Peptide dephosphorylation (Donella-Deana, A. (1094) 130)

Epidermal growth factor
Phosphoinositide; Phospholipase C; Phosphotyrosine; Plasma membrane; A431 cell (Payrastre, B. (1056) 19)

Precursor; Aprotinin; Urine; (Rat kidney) (Jørgensen, P.E. (1074) 284)

Gluconeogenesis; Redox; (Hepatocyte) (Soler, C. (1091) 193)

Chemotaxis; Saliva; (Human oral epithelial cell line) (Royce, L.S. (1092) 401)

Retinoic acid receptor; Northern blotting; Serum-free defined culture; Salivary gland adenocarcinoma cell line; (Human) (Kurokawa, R. (1095) 63)

Vasopressin; Protein kinase C; Fatty acid oxidation; (Rat hepatocyte) (Conricode, K.M. (1095) 161)

Heparin-binding growth factor; Primary culture; (Rat prostate) (Nishi, N. (1095) 268)

Epididymal fat pad
Solution hybridization; Glucose-6-phosphate dehydrogenase mRNA; (Rat) (Louie, P. (1087) 25)

Epididymis
Spermatozoon; Plasma membrane; Maturation; Lipid; (Goat sperm) (Rana, A.P.S. (1061) 185)

Epinephrine
α_2-Adrenoceptor agonist; Clonidine; Patch clamp; Calcium, intracellular; Cell membrane potential (Weiss, H. (1069) 165)

Protein kinase C; Cytosolic calcium; Calcium, cytosolic; cyclic AMP; (Human platelet) (Zoccarato, F. (1092) 72)

Platelet activation; LDL; Atherosclerosis (Bochkov, V.N. (1097) 123)

Epithelial cell
TALH-SVE; NMR; Henle's loop; Renal cell; (Kidney) (Von Recklinghausen, I.R. (1091) 179)

Epithelial monolayer
Hexose transport; Cultured epithelial monolayer; Culture condition; (Caco-2 cells) (Riley, S.A. (1066) 175)

Epithelium
Cornea; Amphotericin B; Conductance; Capacitance; Impedance analysis; Cell coupling (Reinach, P.S. (1066) 115)

Cornea; Calmodulin; ATPase; Plasma membrane; Calcium ion transport (Reinach, P.S. (1068) 1)

Epitope
ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum (Tunwell, R.E.A. (1073) 585)

Epitope map
Erythrocyte; Membrane protein; Band 7 protein; Monoclonal antibody (Hiebl-Dirschmied, C.M. (1065) 195)

Epitope mapping
Protein folding; Creatine kinase; Monoclonal antibody; Synthetic peptide; (Human brain) (Man, N. (1076) 245)

Epoxide
Fatty acid metabolism; Cytochrome *P*-450; Seminal oxygenation; (Monkey) (Oliw, E.H. (1086) 287)

EPR
Photosystem II (Miller, A.-F. (1056) 1)

Halophile; Copper protein nitrite reductase; Nitrate reductase (Denariaz, G. (1056) 225)

P700; Charge recombination; Flash absorption spectroscopy; Phylloquinone; Potentiometry (Bottin, H. (1057) 331)

Photosystem II; Quinone-iron acceptor complex; Non-heme iron; (*P. laminosum*) (Corrie, A.R. (1057) 384)

Optical absorption; Nitrosyl complex; Cytochrome *c'*; (*Ach. xylosoxidans*) (Iwasaki, H. (1058) 79)

Photosystem II; Iron-quinone; Reaction center; Halogenated 1,4-benzoquinone; Semiquinone; (Plant) (Hallahan, B.J. (1059) 181)

Photosystem II; Bicarbonate; Reaction center; Iron-quinone complex (Bowden, S.J. (1060) 89)

Spin label; Lipid bilayer; Chain flexibility (Reboiras, M.D. (1063) 259)

Calmodulin; Conformation; Spin label (Yacko, M.A. (1064) 7)

Glycoprotein, 53 kDa; ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Saturation transfer EPR (Mahaney, J.E. (1064) 55)

Erythrocyte ghost; Membrane resealing; Kinetics; (Human) (Kahana, E. (1066) 6)

Spectrin; Fatty acid; Fluorescence quenching; Erythrocyte ghost; (Human) (Streichman, S. (1066) 9)

Membrane fluidity; Ischemia; Lipid peroxidation; Superoxide dismutase (Phelan, A.M. (1067) 97)

Oxygen diffusion; Oxygen concentration; Carotenoid; Lipid bilayer; Spin label (Subczynski, W.K. (1068) 68)

Nitroxide spin label; Hydroxylamine; Reduction; Oxidation; (Proxyl) (Sentjurc, M. (1073) 329)

Cofactor F_{430}; Mass spectrometry; (*M. thermoautotrophicum*) (Hamilton, C.L. (1074) 312)

Merocyanine 540; Photosensitization; Membrane; Lipid peroxidation (Feix, J.B. (1075) 28)

Spin trapping; Superoxide; Free radical; Hydrogen peroxide; Hydroxyl radical; 5,5-Dimethylpyrroline *N*-oxide (Britigan, B.E. (1075) 213)

Myeloperoxidase; Halide; Cyanide complex; Enzyme catalysis (Lee, H.C. (1076) 317)

Resonance Raman; Nitridochromium(V)-porphyrin; Hemoprotein (Hori, H. (1077) 392)

Kirromycin; Antibiotic binding; Elongation factor Tu; (*B. stearothermophilus*) (Kalbitzer, H.R. (1078) 133)

Manganese superoxide dismutase; SQUID; (*T. thermophilus*) (Peterson, J. (1079) 161)

High potential iron-sulfur protein; Spectroscopy; Mossbauer spectroscopy; Cubane; Structure; *g*-Strain; Salt effect (Dunham, W.R. (1079) 253)

Ribulose-1,5-bisphosphate carboxylase; Rubisco; Intermediate; Cobaltous ion; Optical absorption (Janson, K. (1080) 40)

Phospholipid transfer protein; Spin label; Fluorescent phospholipid; (Maize seed) (Geldwerth, D. (1082) 255)

EPR multiline signal
Calcium; Manganese; Chloride; Photosystem II; Oxygen evolution; Polypeptide (Yocum, C.F. (1059) 1)

EPR, saturation transfer
Protein translational diffusion; Spin label; Human serum albumin (Khramtsov, V.V. (1068) 257)

Equilibrium dialysis
Pertussis toxin; Binding study; NAD^+ binding; (*B. pertussis*) (Lobban, M.D. (1078) 155)

Equilibrium flexibility
Polyunsaturated acyl chain; Docosahexaenoyl chain; Conformational property; Computer simulation; Monte Carlo method (Rabinovich, A.L. (1085) 53)

Equilibrium studies
Ovomucoid; Egg-white trypsin inhibitor; Structural domain; Conformation; Kinetic studies; Protein denaturation (Das, B.K. (1076) 343)

Erbstatin
Tyrphostin; *cdc2* kinase; *mpk* kinase; Oocyte maturation (Daya-Makin, M. (1093) 87)

Erythrocyte
Phosphatase; Calcium ion; Calcium pump; Acidic phospholipid; (Human) (Rossi, J.P.F.C. (1061) 49)

Cation transport; Ionic strength; (Sheep) (Erdmann, A. (1061) 85)

Non-heme iron; ATPase, $(Ca^{2+} + Mg^{2+})$-; (Human) (Leclerc, L. (1062) 35)

Hemin; Hemolysis; Cytoskeletal protein (Solar, I. (1062) 51)

Hemolysis; Iron deficiency; Thalassemia; Spherocytosis; pH effect; Band 3 protein (Sauer, A. (1063) 203)

Anion transport; Phenylhydrazine; Oxygen radical (Petty, H.R. (1064) 308)

Electrofusion; Dielectrophoresis; Hemi-fusion (Song, L. (1065) 54)

Cation channel; Voltage-dependent gating; Patch clamp (Christophersen, P. (1065) 103)

Membrane protein; Band 7 protein; Monoclonal antibody; Epitope map (Hiebl-Dirschmied, C.M. (1065) 195)

Cytoskeleton; Electrostatic force; Spectrin; (Human) (Kahana, E. (1066) 1)

Electroinsertion; Biotinylation; Flow cytometry; Life-span (Mouneimne, Y. (1066) 83)

Cholesterol; Dehydroergosterol; Membrane domain; Fluorescence quenching; Fluorescence photobleaching; (Human) (Schroeder, F. (1066) 183)

Oxidative damage; Hydrogen peroxide; (Human) (Chen, M.-j. (1066) 193)

Erythrocyte aggregation; Fibrinogen; Immunoglobulin; Sialic acid; (Human) (Izumida, Y. (1067) 221)

Malignant hyperthermia; Membrane fluidity (Cooper, P. (1069) 151)

Glucose transporter; Ubiquinone; Ubiquinone binding site; Amino acid sequence (Lowe, A.G. (1069) 223)

Lactate transport; Band 3; Stilbene disulfonate; Inhibitor (Poole, R.C. (1070) 69)

Membrane; Shape (Elgsaeter, A. (1071) 273)

Cathepsin E; Leukocyte (Yonezawa, S. (1073) 155)

Affinity phase partitioning; Metal chelate; Two-phase system (Goubran Botros, H. (1074) 69)

AE1 protein; Anion transport; Band 3 protein; Bicarbonate; Nitrate; NMR (Galanter, W.L. (1079) 146)

Peroxide; Phospholipid; Arachidonic acid; Acyltransferase; Ethanol (Allen, D.W. (1081) 267)

($n-3$) Fatty acid; Icosapentaenoic acid; Docosahexaenoic acid; Osmotic fragility; Phospholipid (Hagve, T.-A. (1084) 251)

Membrane protein; Band 7; cDNA sequence; Protein structure analysis (Hiebl-Dirschmied, C.M. (1090) 123)

Hemoglobin; Oxidative stress; Hemolysis; Hydrogen peroxide; (Mouse) (Kruckeberg, W.C. (1094) 288)

Malaria; Band 3 protein; Phosphorylation; Amino terminal extension (Jones, G.L. (1096) 33)

Calpain inhibitor; Invasion; Proteinase inhibitor; (*P. falciparum*) (Olaya, P. (1096) 217)

Malaria; Membrane; Band 3; (Human) (Jones, G.L. (1097) 71)

Erythrocyte aggregation
Fibrinogen; Immunoglobulin; Sialic acid; Erythrocyte; (Human) (Izumida, Y. (1067) 221)

Erythrocyte elasticity
Spectrin; Cytoskeleton; Liposome; Phospholipid vesicle (Subbarao, N.K. (1063) 147)

Erythrocyte ghost
Palmitic acid transport; Efflux kinetics (Bojesen, I.N. (1064) 297)

Membrane resealing; Kinetics; EPR; (Human) (Kahana, E. (1066) 6)

Spectrin; Fatty acid; Fluorescence quenching; EPR; (Human) (Streichman, S. (1066) 9)

Erythrocyte membrane
Malaria; Tryptophan-*N*-formylated gramicidin; Phospholipid; Growth inhibition; Potassium ion leakage; (*P. falciparum*) (Moll, G.N. (1062) 206)

Permeability; Water; Amide; Urea; Reflection coefficient (Toon, M.R. (1063) 179)

Oxidative modification; Diamide; Electroporation; Leakage; Colloid-osmotic lysis; Phloretin (Deuticke, B. (1067) 111)

Phosphoinositide; Phosphatidic acid; Antibody to polyphosphoinositide; Phospholipase A_2 (Gascard, P. (1069) 27)

Pesticide; Hexachlorocyclohexane; Raman spectroscopy; Thermal transition; Protein structure (Verma, S.P. (1070) 265)

Agglutination; Deformability; Lectin; Concanavalin A; (Human erythrocyte) (Pestonjamasp, K.N. (1073) 341)

Protein kinase C; Protein phosphorylation; Chronic myelogenous leukemia (Kundu, M. (1096) 205)

Erythrocyte plasma membrane
Calcium pump; ATPase, Ca^{2+}-; Enzyme solubilization; Enzyme crystallization; Nonionic detergent; (Porcine blood) (Pikuła, S. (1061) 206)

Erythroid differentiation
Poly(ADP-ribose) synthetase; Gene regulation; Hemin induction; (Human leukemia cell) (Tomoda, T. (1088) 359)

Erythroleukemia cell
Heme synthesis; δ-Aminolevulinate synthase; Heme oxygenase; Sequential activation (Fujita, H. (1090) 311)

Essential fatty acid
Arachidonate; Phosphatidylcholine; VLDL; Sex related difference (Graham, A. (1081) 151)

Desaturation; Evening primrose oil; Aging; (Rat liver microsome) (Biagi, P.L. (1083) 187)

Intrauterine growth retardation; Phosphatidylcholine; Phosphatidylethanolamine; (Human placenta) (Percy, P. (1084) 173)

Palmitic acid; Myocardial CoA; Pyruvate (Saddik, M. (1086) 217)

Essential hypertension
Calpain; Calpastatin; (Human red cell); (Rat red cell) (Salamino, F. (1096) 265)

Estradiol
Tyrosinase; Melanin; 2-Hydroxyestradiol; Estradiol-2,3-quinone; Dopa; FTIR (Jacobsohn, M.K. (1073) 1)

Steroid hormone; Lipoprotein; HDL; Androstenediol; Dehydroepiandrosterone; Dihydrotesterone; Pregnenolone; Progesterone (Leszczynski, D.E. (1083) 18)

Hepatic lipase; Steroid; (Rat hepatocyte) (Emmison, N. (1083) 147)

PAF; Prostaglandin; Arachidonic acid; GPC, 1-alkyl-2-arachidonoyl; (Oophorectomized rat uterus) (Nakayama, R. (1085) 235)

Fatty acyl-CoA; Progesterone; Uterus; Glucose-6-phosphate dehydrogenase (Young, A.J. (1092) 211)

Protein phosphorylation; Corpus luteum; Polymyxin B; Compound 48/80 (Steinschneider, A. (1093) 102)

Estradiol 17β-dehydrogenase
Mechanism; Metal ion (Murdock, G.L. (1076) 197)

Estradiol-2,3-quinone
Tyrosinase; Melanin; Estradiol; 2-Hydroxyestradiol; Dopa; FTIR (Jacobsohn, M.K. (1073) 1)

Estrogen
Spermidine N^1-acetyltransferase activity; Estrogen induction; Polyamine; Estrous cycle; (Rat uterus) (Sessa, A. (1074) 31)

Cholesterol; Bile acid; Progesterone; Hormone (Kushwaha, R.S. (1084) 300)

Phytoestrogen; Lignan; Fatty acid; α-Fetoprotein (Garreau, B. (1094) 339)

Estrogen induction
Spermidine N^1-acetyltransferase activity; Estrogen; Polyamine; Estrous cycle; (Rat uterus) (Sessa, A. (1074) 31)

Estrogen receptor
(Rat adipocyte) (Pedersen, S.B. (1093) 80)

Estrogen regulation
Translational control; tRNA; Ribosome; Aminoacylation (Whelly, S.M. (1092) 218)

Estrogen stimulation
Poly(ADP-ribosylation); Nuclear protein; Oviduct; (Lizard) (Quesada, P. (1079) 79)

Estrogen sulphotransferase
Isomorphic form; Transferrin; (Bovine placenta) (Adams, J.B. (1076) 282)

Estrous cycle
Spermidine N^1-acetyltransferase activity; Estrogen; Estrogen induction; Polyamine; (Rat uterus) (Sessa, A. (1074) 31)

Ethanol
Freeze-clamped liver; Phosphorylation potential; (Hepatocytes) (Spach, P.I. (1056) 40)

Hemolysis; Red blood cell (Chi, L.-M. (1062) 46)

Phosphatidylinositol; Membrane tolerance; Fatty acid; NMR, ^{1}H-; Microsome; Phospholipid; (Rat liver) (Ellingson, J.S. (1062) 199)

Sodium ion/D-glucose cotransport; Brush-border membrane vesicle; Sodium ion–proton exchange; Sodium ion transport; Glucose transport; (Rabbit kidney) (Parenti, P. (1070) 92)

Phosphatidylserine; Phospholipase A_2; Phospholipid hydrolysis (Stubbs, C.D. (1070) 349)

Peroxide; Phospholipid; Arachidonic acid; Erythrocyte; Acyltransferase (Allen, D.W. (1081) 267)

Ethanolamine
Lipid metabolism; Choline; NMR, ^{31}P-; NMR, ^{13}C-; T47D; Spheroid (Ronen, S.M. (1095) 5)

Ether-linked glycerophospholipid
Arachidonic acid metabolism; Leukotriene B_4 synthesis; Calcium ionophore A23187; Human neutrophil; Allergy (Chabannes, B. (1093) 47)

Ether lipid
Hydroxyarchaeol; Archaebacterium; Serine lipid; Inositol lipid; (*M. barkeri*) (Nishihara, M. (1082) 211)

Ether phospholipid
Lipid polymorphism; Microscopy; Synchrotron radiation; X-ray diffraction; NMR, ^{31}P- (Lohner, K. (1061) 132)

Ethidium bromide
Chromatin structure; DNA intercalator; DNAase I-hypersensitive site, β^A-Globin gene; β^A-Globin gene; (Chicken erythrocyte) (Zhu, J.-d. (1089) 158)

Ethylene
1-Aminocyclopropane-1-carboxylic acid; Ethylene forming enzyme; Free radical; Hydroperoxide; Peroxidase; Manganese (Acosta, M. (1077) 273)

Ethylene forming enzyme
1-Aminocyclopropane-1-carboxylic acid; Ethylene; Free radical; Hydroperoxide; Peroxidase; Manganese (Acosta, M. (1077) 273)

***N*-Ethylmaleimide**
Anion transport; Mitochondrion; Mercurial; Thiol (Beavis, A.D. (1063) 111)

Plasma membrane; Tonoplast; Hexose transporter kinetics; (*N. tabacum*) (Verstappen, R. (1073) 366)

Eukaryotic DNA polymerase
DNA polymerase δ; DNA polymerase ε (Bambara, R.A. (1088) 11)

Eukaryotic initiation factor
Hypusine; Protein synthesis initiation factor (Chung, S.I. (1076) 448)

Protein synthesis; GTP binding; Affinity labelling; Sequence analysis (Bommer, U.-A. (1079) 308)

Eukaryotic initiation factor 2α
Protein synthesis; Protein characterization; (Bovine eIF-2α cDNA) (Green, S.R. (1090) 277)

Eukaryotic promoter
β-Galactoside binding protein; Carbohydrate binding protein; Gene expression; (Mouse) (Chiariotti, L. (1089) 54)

Eukaryotic transcription
Transcription factor; Nuclear extract; Phospholipid; Cardiolipin; Chlorpromazine; (Ehrlich ascites tumor cell) (Hirai, H. (1088) 191)

Eukaryotic translation initiation factor 4D
Deoxyhypusyl hydroxylase; Metal binding peptide; Peptide inhibitor design (Abbruzzese, A. (1077) 159)

Evacuolated plant protoplast
Electrofusion; Selectable marker; Hybrid enrichment; Hypo-osmolar medium (Pfister, E. (1062) 13)

Evening primrose oil
Essential fatty acid; Desaturation; Aging; (Rat liver microsome) (Biagi, P.L. (1083) 187)

Evolution
Cytochrome *c*-552; Cytochrome *c*-555; Sequence; (*B. azotoformans*) (Hreggvidsson, G.O. (1058) 52)

Peroxidase; Ligninase; Cytochrome *c* peroxidase; Active site; Heme; Structure prediction (Welinder, K.G. (1080) 215)

Calmodulin gene; Gene structure; Promoter; (Human) (Koller, M. (1087) 180)

aminoacyl-tRNA synthetase; Protein structure; Structural motif; Nucleotide binding (Leberman, R. (1089) 287)

Evolutionary conservation
Bone morphogenetic protein 2 (BMP-2); cDNA sequence; (*X. Laevis*) (Plessow, S. (1089) 280)

Evolutionary map
Cytochrome *c*; Sequence classification; Phenotype (Ambler, R.P. (1058) 42)

EXAFS analysis
Blue copper protein; Amicyanin; *(T. versutus)* (Lommen, A. (1076) 439)

Excision repair
Ultraviolet radiation; Pyrimidine dimer; Antibody binding; Enzyme immunoassay; Plasmid vector; Specific gene fragment; DNA blot; Bacterial mutant; DNA damage (Wani, A.A. (1090) 195)

Excitation annihilation
Fluorescence yield; Bacteriochlorophyll; Antenna complex; (*Rps. acidophila*) (Deinum, G. (1060) 125)

Excitation–contraction coupling
Sarcoplasmic reticulum; Calcium ion transport; Halothane; Hydrocarbon (Ritov, V.B. (1067) 187)

Anthraquinone; Dantrolene; Ryanodine binding; Calcium release channel; Cardiotoxicity (Tian, Q. (1094) 27)

Excitation energy transfer
Δ^3-*trans*-Hexadecenoic acid; Thylakoid stacking; Light-harvesting chlorophyll-protein complex; (*C. reinhardtii*) (Trémolières, A. (1059) 286)

Photosystem II; Fluorescence emission; Antenna model; Light-harvesting chlorophyll *a*/*b* protein complex II; (Spinach and barley thylakoids) (Jennings, R.C. (1060) 245)

Exciton interaction
Bacteriochlorophyll; Photosynthesis (Van Mourik, F. (1059) 111)

Exciton migration
Phycocyanin 645; Biliprotein; Picosecond fluorescence; Photosynthesis; (*Chroomonas*) (Malak, H. (1059) 165)

Fluorescence decay; Energy transfer kinetics; Photosynthesis; Chlorophyll fluorescence; Kinetic model (Beauregard, M. (1060) 271)

Excitotoxicity
Peroxisome; Oxidase; Dicarboxylic amino acid; Zellweger syndrome; (Human liver) (Van Veldhoven, P.P. (1073) 203)

Exo-cellobiohydrolase
4-Methylumbelliferyl β-D-cellobioside; Transglycosylation; (*T. longibrachiatum*) (Gusakov, A.V. (1073) 481)

Exocrine pancreas
Amino acid transport; L-Alanine; L-Glutamine; γ-Glutamyltranspeptidase; Acivicin; (Rat) (Sastre, J. (1065) 213)

L-Phenylalaline; Amino acid transport; Protein synthesis; Carbachol; (Rat) (Sweiry, J.H. (1070) 135)

Exocytosis
Neurotransmitter release; Bioenergetics; Cation (McMahon, H.T. (1059) 243)

Fluorescence; Confocal microscopy; Imaging; Hormone release; Mast cell (Kawasaki, Y. (1067) 71)

Bisoxonol; Oxonol; Mast cell; Membrane potential; Sodium pump; Potassium (Bronner, C. (1070) 321)

Lung surfactant secretion; Liposome fusion; Membrane fusion; Liposome aggregation (Chander, A. (1086) 157)

ATP; GTP binding-protein G_E; Protein kinase C; Magnesium ion; (Mast cell) (Lillie, T.H.W. (1094) 355)

Exon
Growth hormone; Genomic sequence; Intron; (Carp); (*C. carpio*) (Chiou, C.-S. (1087) 91)

Exonuclease
DNA repair enzyme; Apurinic/apyrimidinic endonuclease; DNA phosphatase; Amino acid sequence; Priming enzyme (Seki, S. (1079) 57)

Exonuclease III
DNA replication; Plasmid pSC101 (Fueki, T. (1089) 325)

Exo-peptidase
Biotinidase; Aminopeptidase; Opioid neuropeptide (Oizumi, J. (1074) 433)

Experimental design
Progress curve; Enzyme kinetics; Michaelis-Menten kinetics; Kinetic analysis (Duggleby, R.G. (1080) 231)

Expression
Oocyte; Glucose transport; Sodium ion/glucose cotransporter; Flux; Voltage clamp; (*Xenopus laevis*) (Weber, W.-M. (1063) 73)

Sodium ion/glucose cotransporter; Glycosylation; Site-directed mutagenesis (Hediger, M.A. (1064) 360)

Induction; Methotrexate; Murine hybridoma; Plasminogen activator (Lo, K.-M. (1088) 217)

Cell proliferation; DNA binding protein; mRNA level; Protein level (Yaneva, M. (1090) 181)

G protein; Alpha subunit; Signal transduction; Development; (Mammalian cell and tissue) (Garibay, J.L.R. (1094) 193)

Expression vector
Rhodopsin; Site-specific mutagenesis; Baculovirus; Glycosylation (Jansen, J.J.M. (1089) 68)

External localization
Acetylcholinesterase; Sarcoplasmic reticulum (Cánovas-Muñoz, M.D. (1076) 259)

Extracellular ATP
Cartilage; Chondrocyte; Purinoceptor (Caswell, A.M. (1074) 151)

Extracellular matrix
Glia; Hyaluronate binding protein (Perides, G. (1075) 248)

Extracellular processing
Proteinase, pN-; Dermatosparaxis; C1q; Collagen-like complement protein (Yonemasu, K. (1096) 47)

Extrafibrillar water
Collagen; Proteoglycan; Cartilage structure; Intrafibrillar water (Maroudas, A. (1073) 285)

Extrinsic 33 kDa protein
Immobilization; Cross-linking; Oxygen evolution, stabilization; Protein, 47 kDa; Protein stoichiometry (Enami, I. (1060) 224)

Extrusion apparatus
Liposome extrusion; LUVET; Liposome; Rapid freezing; Freeze-fracture (MacDonald, R.C. (1061) 297)

F

FABMS
Ceramide digalactoside; Ceramide monohexoside; Hydroxy fatty acid; Long-chain base, branched; (Sponge); (*H. japonica*) (Hayashi, A. (1083) 179)

Cestode lipid; Glycosphingolipid; Sphingomyelin; HPLC (Nishimura, K. (1086) 141)

H-FABP
Fatty acid binding protein; Ischemic-reperfusion injury; Mepacrine; (Rat heart) (Das, D.K. (1073) 394)

Factor analysis
Fluorescence; Principal components analysis; Chlorophyll-protein complex; (Pea chloroplast) (Ross, R.T. (1056) 317)

Familial amyloidotic polyneuropathy
Transthyretin; Gene structure (Harding, J. (1097) 183)

Familial amyloid polyneuropathy type IV
Amyloid protein; Gelsolin; Point mutation (Maury, C.P.J. (1096) 84)

Fanconi syndrome
Iron transport; Heme metabolism; Tyrosinemia; Succinylacetone; (Rat renal tubule) (Wyss, P.A. (1070) 300)

Fast freezing
Membrane fusion; Phospholipase C; Diacylglycerol; Non-bilayer phase; Freeze-fracture (Burger, K.N.J. (1068) 249)

Fast inactivation
Cardiac sodium channel; Sodium ion channel; Patch clamp; Inactivation; Proteolytic enzyme (Zilberter, Y.I. (1068) 77)

Fat absorption
Bile; Taurocholate; Bile duct; Phosphatidylcholine (Knox, R. (1083) 65)

Fat deficiency
Cardiolipin; Fatty acid positional distribution; Palmitoleic acid series; Dihomo-γ-linolenic acid (Wolff, R.L. (1082) 136)

Fatty acid
Mitochondrion; Proton permeability; Cation permeability; Respiratory control (Brown, G.C. (1059) 55)

Phosphatidylinositol; Ethanol; Membrane tolerance; NMR, ^{1}H-; Microsome; Phospholipid; (Rat liver) (Ellingson, J.S. (1062) 199)

Spectrin; Fluorescence quenching; EPR; Erythrocyte ghost; (Human) (Streichman, S. (1066) 9)

Phosphorylase *b* kinase; Phosphorylase *a* phosphatase; Muscle contraction; (Pig vascular smooth muscle) (Barron, J.T. (1073) 550)

Acyl chain elongation; Cytochrome b_5; Microsome; Desaturase; (Rat liver) (Demirkapi, N. (1082) 49)

Phospholipid; Nuclei; (Regenerating rat liver); (Rat ascites hepatoma) (Ishihara, H. (1084) 53)

Absorption; Adaptation; Alcohol; Cholesterol; Galactose; Glucose; Hexose (Thomson, A.B.R. (1084) 122)

Phosphatidylinositol; Δ-5,11,14-Icosatrienoate; Δ-5,11,14,17-Icosatetraenoate; Phospholipid; (*P. orientalis*); (*A. vulgaris*) (Berger, A. (1085) 371)

Cytidylyltransferase; Phosphatidylcholine synthesis; Membrane bound enzyme; Enzyme kinetics (Weinhold, P.A. (1086) 57)

Glycolysis; Glycogen; Smooth muscle; NMR, ^{31}P-; Muscle contraction; (Pig) (Barron, J.T. (1093) 125)

Phytoestrogen; Lignan; Estrogen; α-Fetoprotein (Garreau, B. (1094) 339)

($n-3$) Fatty acid
Dietary fat; ($n-6$) Fatty acid; Fatty acid desaturation; Microsome; (Rat liver) (Christiansen, E.N. (1082) 57)

Icosapentaenoic acid; Docosahexaenoic acid; Osmotic fragility; Phospholipid; Erythrocyte (Hagve, T.-A. (1084) 251)

Tumor necrosis factor; Polyunsaturated fatty acid; Prostaglandin; Dietary fat (Hardardottir, I. (1095) 187)

($n-6$) Fatty acid
Dietary fat; ($n-3$) Fatty acid; Fatty acid desaturation; Microsome; (Rat liver) (Christiansen, E.N. (1082) 57)

Fatty acid binding protein
H-FABP; Ischemic-reperfusion injury; Mepacrine; (Rat heart) (Das, D.K. (1073) 394)

Sandwich ELISA; Streptavidin-biotin system; Langendorff perfusion; (Rat heart) (Vork, M.M. (1075) 199)

Retinol-binding protein; Myelin P_2; Tissue-specific expression; Fatty acid binding site; Differentiation; Peroxisomal proliferator; (Liver, Heart, Muscle, Kidney, Adipocyte) (Veerkamp, J.H. (1081) 1)

Fatty acid binding site
Fatty acid binding protein; Retinol-binding protein; Myelin P_2; Tissue-specific expression; Differentiation; Peroxisomal proliferator; (Liver, Heart, Muscle, Kidney, Adipocyte) (Veerkamp, J.H. (1081) 1)

Fatty acid β-oxidation
Beta-oxidation; Mitochondrial enzyme; Respiratory chain (Sumegi, B. (1081) 121)

Fatty acid composition
Cell differentiation; Mucosa; Brush-border membrane; (Pig small intestine) (Alessandri, J.-M. (1086) 340)

Membrane; Calcium, intracellular; (Leukemic T cell) (Chow, S.C. (1092) 358)

Fatty acid desaturation
Dietary fat; ($n-3$) Fatty acid; ($n-6$) Fatty acid; Microsome; (Rat liver) (Christiansen, E.N. (1082) 57)

Fatty acid elongation; Arachidonic acid; Icosapentaenoic acid; Clofibrate; (Rat liver) (Mimouni, V. (1086) 349)

Fatty acid elongation
Fatty acid desaturation; Arachidonic acid; Icosapentaenoic acid; Clofibrate; (Rat liver) (Mimouni, V. (1086) 349)

Fatty acid esterification
Triacylglycerol; Ketone body synthesis; Citric acid cycle; (Rat hepatocyte) (Henly, D.C. (1092) 277)

Fatty acid ethyl ester synthase
Glutathione; Glutathione *S*-transferase; Pancreas (Singhal, S.S. (1079) 285)

Fatty acid hydrogenation
Catalytic hydrogenation; Δ^{12}-Desaturase; Membrane fluidity; Microviscosity; Linoleic acid; Microsomal membrane; (*C. lipolytica*) (Horváth, I. (1085) 126)

Fatty acid hydroperoxide
Lipoxygenase pathway; Hydroperoxide product; Plant enzyme; Enzyme pathway (Gardner, H.W. (1084) 221)

Fatty acid metabolism
Linolenic acid; Elongase (Chapkin, R.S. (1085) 365)

Cytochrome *P*-450; Seminal oxygenation; Epoxide; (Monkey) (Oliw, E.H. (1086) 287)

Fatty acid oxidation
Peroxisomal oxidation (Schulz, H. (1081) 109)

Omega oxidation; Lauric acid; Cytochrome *P*-450; Alcohol dehydrogenase; Peroxisome; (Rat hepatocyte) (Christensen, E. (1081) 167)

Peroxisome; Immunoblotting; Cerebrohepatorenal syndrome; X-linked adrenoleukodystrophy; (Fibroblast) (Reubsaet, F.A.G. (1083) 305)

Peroxisomal β-oxidation; Bile acid formation (Osmundsen, H. (1085) 141)

Vasopressin; Epidermal growth factor; Protein kinase C; (Rat hepatocyte) (Conricode, K.M. (1095) 161)

Fatty acid positional distribution
Cardiolipin; Fat deficiency; Palmitoleic acid series; Dihomo-γ-linolenic acid (Wolff, R.L. (1082) 136)

Fatty acid remodelling
Phospholipid; Deacylation; Reacylation; Acyltransferase (MacDonald, J.I.S. (1084) 105)

Phosphatidylinositol; Phospholipase A; Deacylation; Reacylation (Darnell, J.C. (1084) 279)

Fatty acid retroconversion
Δ^4-Desaturation; Docosatetraenoate; Docosapentaeonate; Arachidonate; Icosapentaenoate; (Human skin fibroblast); (Retinoblastoma cell) (Rosenthal, M.D. (1083) 29)

Fatty acid synthesis
cyclic AMP; Protein kinase; Glycogen metabolism; Cholesterol synthesis (Cohen, P. (1094) 292)

Fatty acyl chain length
Monensin; Lipid sorting; Membrane biogenesis; Vesicular transport (Bertho, P. (1070) 127)

Fatty acyl-CoA
Estradiol; Progesterone; Uterus; Glucose-6-phosphate dehydrogenase (Young, A.J. (1092) 211)

Feedback regulation
Glutamine synthetase; (*Rsp. rubrum*) (Hammarström, A. (1080) 259)

Feeding response
Glutamate receptor; Glutathione; Kainate; α-Aminoadipate; (*Hydra*) (Bellis, S.L. (1061) 89)

Ferredoxin
Chloroplast enzyme; Photosynthesis (Knaff, D.B. (1056) 93)

Nitrogenase reduction; Electron donor; (*R. capsulatus*) (Hallenbeck, P.C. (1057) 97)

Cyanobacterium; Alga; Cytochrome *c*; Hydrogenase (Krogmann, D.W. (1058) 35)

Cross-linking; Electron transfer; Photosynthetic particle; Flavoprotein; (Cyanobacterium); (*Anabaena* PCC 7119) (Pueyo, J.J. (1059) 149)

Ferredoxin methanogen
Protein sequence; Molecular modelling; Thermostability; (Archaebacteria) (Bruschi, M. (1076) 79)

Ferric heme ligand
Hemoglobin; Hemichrome; (Mollusc) (Spagnuolo, C. (1074) 270)

Ferrichrome synthetase
Phosphopantetheine; Multienzyme complex; (*A. quadricinctus*) (Siegmund, K.-D. (1076) 123)

Ferricyanide
Bathophenanthroline disulfonate (BPS); Diferric transferrin; Ferrozine; Redox activity; K562 cell (Bérczi, A. (1073) 562)

Ferriprotoporphyrin IX
Chloroquine; Lipid peroxidation; Antimalaria (Sugioka, Y. (1074) 19)

Ferritin
Cytochrome *c'*; Bacterioferritin; Hemoferritin; 4-α-helical (Moore, G.R. (1058) 38)

Bacterioferritin; Iron storage (Andrews, S.C. (1078) 111)

Ferrous nitrosylhemoglobin
Hemoglobin; XANES spectroscopy; (*Camelus dromedarius*); (Dromedary) (Congiu Castellano, A. (1080) 119)

Ferrozine
Bathophenanthroline disulfonate (BPS); Diferric transferrin; Ferricyanide; Redox activity; K562 cell (Bérczi, A. (1073) 562)

Ferryl
Myoglobin; Hydrogen peroxide; Radical; Electron spin resonance; Phenoxyl; Peroxide (Davies, M.J. (1077) 86)

α-Fetoprotein
Albumin; Polyunsaturated fatty acid; Hepatoma; (Rat fetal hepatocyte) (Iturralde, M. (1086) 81)

Phytoestrogen; Lignan; Estrogen; Fatty acid (Garreau, B. (1094) 339)

FGF receptor
cDNA sequence; Tyrosine kinase; *bek*; *flg*; *bfr*; Soluble receptor; (Human) (Seno, M. (1089) 244)

aFGF
Heparin-binding growth factor-1; HBGF-1; Acidic fibroblast growth factor; Gene expression (Sullivan, D.E. (1090) 17)

Fibrinogen
Erythrocyte aggregation; Immunoglobulin; Sialic acid; Erythrocyte; (Human) (Izumida, Y. (1067) 221)

Tissue-type plasminogen activator; ϵ-Aminohexanoic acid (Urano, T. (1077) 245)

Surfactant; Surface activity; Respiratory distress syndrome; Apolipoprotein C (Seeger, W. (1081) 45)

Cytokine; Cholesterol; HepG2 cell; (Human monocyte) (Lane, A. (1097) 161)

Fibrinogenase
Platelet aggregation; Antiplatelet effect; Venom; (Snake); (*Naja nigricollis*) (Kini, R.M. (1095) 117)

Fibrinogen binding
Snake venom peptide; Arg-Gly-Asp-containing; Antiplatelet aggregation (Huang, T.-F. (1074) 136)

Fibrinogen receptor antagonist
Antiplatelet peptide; Interaction; Glycoprotein IIb-IIIa complex (Huang, T.-F. (1074) 144)

Fibrinolysis
Pseudomonal alkaline proteinase; Metalloproteinase; Plasmin; Pseudomonal infection (Shibuya, Y. (1077) 316)

Fibrinolytic enzyme
Proteinase; Snake venom; (*V. lebetina*) (Siigur, E. (1074) 223)

Fibroblast
UVA light; Endogenous photosensitizer; Peroxidation; Membrane (Morlière, P. (1084) 261)

Cholesterol; Phospholipid; Efflux; HDL (Bielicki, J.K. (1085) 7)

Fusion protein; λGT11 expression vector; Apolipoprotein E; LDL(B/E) receptor (Ribeiro, A. (1087) 219)

TGF-β; Procollagen; Collagen; Collagen synthesis; Collagen degradation; Growth factor (McAnulty, R.J. (1091) 231)

Bradykinin; Br-A23187; Inositol phosphate; Cytosolic free calcium (Huang, H.-M. (1091) 409)

Fibronectin; Intracellular transport; Chick embryo development (Botti, J. (1093) 13)

TGF-β; TIMP; In vitro; Connective tissue breakdown (Wright, J.K. (1094) 207)

β_2-Microglobulin; Fibroblast growth factor; Superinducible protein; Immunosuppression (Davis, T.R. (1095) 145)

Skeletal muscle; Cell differentiation; Myoblast; Myotube; L-Carnitine (Martinuzzi, A. (1095) 217)

Peroxisomal disease; Peroxisomal β-oxidation; Peroxisomal 3-oxoacyl-CoA thiolase; Peroxisome; (Rhizomelic Chondrodysplasia Punctata) (Heikoop, J.C. (1097) 62)

Fibroblast growth factor
Translation; RNA secondary structure (Forough, R. (1090) 293)

β_2-Microglobulin; Fibroblast; Superinducible protein; Immunosuppression (Davis, T.R. (1095) 145)

Fibronectin
Peptide; Platelet (Chen, C.S. (1075) 237)

Nucleation time; Vesicle; Cholesterol gallstone (Chijiiwa, K. (1086) 44)

Arg-Gly-Asp tripeptide; Ajoene; Respiratory burst; (Human neutrophil) (Sud'ina, G.F. (1091) 257)

Fibroblast; Intracellular transport; Chick embryo development (Botti, J. (1093) 13)

Indirect immunoperoxidase staining; Lens transparency; Cataract formation; Plasma membrane; Structural protein; (Human lens) (Babizhayev, M.A. (1096) 139)

Filamentous phage
Translational regulation; Bacteriophage M13; Single-stranded DNA binding protein (Zaman, G. (1089) 183)

Filipin
Lipid bilayer; Conductance; Cholesterol (Krawczyk, J. (1063) 60)

Fish
Growth hormone gene; (Grass carp) (Ho, W.K.K. (1090) 245)

Fish metallothionein
cDNA; Polymerase chain reaction; Sequence homology; 3′ Untranslated variation (Kille, P. (1089) 407)

Fish oil
Omega-3 fatty acid; Platelet; Thrombosis; Icosapentaenoic acid (Wojenski, C.M. (1081) 33)

Polyunsaturated fatty acid; Arachidonic acid; Docosahexaenoic acid; (Rat pineal gland) (Sarda, N. (1081) 75)

Hepatomegaly; Cholesterol; Triacylglycerol synthesis; Glucose-6-phosphate dehydrogenase; Malic enzyme; Diacylglycerol acyltransferase; Insulin; (Rat liver) (Otto, D.A. (1082) 37)

Lipoprotein; LDL receptor activity; Plasma membrane composition; (Rat liver) (Tripodi, A. (1083) 298)

FITC
ATPase, H^+/K^+-; Heterodimer; Cross-link; Glycoprotein; $C_{12}E_8$; Glutaraldehyde; Soluble enzyme; Wheat germ agglutinin (Hall, K. (1077) 173)

Fixed-point method
Kinetic parameter (Duggleby, R.G. (1078) 124)

Flanking sequence
DNA–protein interaction; Restriction endonuclease; Synthetic DNA duplex (Kubareva, E.A. (1088) 395)

Flash absorption spectroscopy
P700; Charge recombination; Phylloquinone; Potentiometry; EPR (Bottin, H. (1057) 331)

Photosystem II; Oxygen evolution; Manganese binding; Electron transfer kinetics; $P680^+$ reduction kinetics (Hoganson, C.W. (1057) 399)

Flavodoxin
Structural gene sequence; Amino acid sequence; (*Desulfovibrio desulfuricans*) (Helms, L.R. (1089) 417)

Flavoenzyme
NADPH oxidase; NADPH-cytochrome *c* reductase; Superoxide generation; Cytochrome *b*-558; (Neutrophil) (Fujii, H. (1095) 201)

Flavoprotein
Cross-linking; Electron transfer; Photosynthetic particle; Ferredoxin; (Cyanobacterium); (*Anabaena* PCC 7119) (Pueyo, J.J. (1059) 149)

Flavoprotein fluorescence
Pyridine nucleotide fluorescence; Redox state; (Epididymal bull spermatozoa) (Halangk, W. (1056) 273)

Flavoprotein redox reaction
Glutathione reductase; Nitrofuran (Čénas, N.K. (1073) 195)

Flexibility gradient
FTIR; Membrane dynamics; Cholesterol; Gramicidin A; Cytochrome *c* (Castresana, J. (1065) 29)

flg
FGF receptor; cDNA sequence; Tyrosine kinase; *bek*; *bfr*; Soluble receptor; (Human) (Seno, M. (1089) 244)

Flip-flop
Phosphatidylcholine; Acyl-CoA; Arginine; Temperature dependence; (Human erythrocyte) (Andrick, C. (1064) 235)

Flotation
LDL; Ganglioside; Fluorescence; Affinity chromatography; (Human) (Mikhailenko, I.A. (1085) 299)

Flow cytometry
Electroinsertion; Erythrocyte; Biotinylation; Life-span (Mouneimne, Y. (1066) 83)

Membrane structural dynamics; Membrane rigidity; Lipid structural order; Anthroyloxy fatty acid (Collins, J.M. (1067) 171)

Flow injection analysis
Lignin peroxidase; Immobilized enzyme (Fawer, M.S. (1076) 15)

Fluctuation
Growth hormone-releasing factor; Rotation; Fluorescence depolarization; Phospholipid (Honda, S. (1068) 81)

Fluid-fluid immiscibility
Phospholipid phase transition; Phosphatidylethanolamine; Cross-linking; Dimethyl suberimidate (Roth, M.R. (1063) 242)

Fluo-3
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Pressure effect; Fluorescence; Prodan; Calcium ion indicator; (Rabbit) (Jona, I. (1070) 355)

Fluorescamine
Bacteriorhodopsin; Chemical modification; Fluorescence; Forster resonance energy transfer; (*H. halobium*) (Sonar, S.M. (1076) 239)

Fluorescein
HDL; Endocytosis; Internalization; Non-lysosomal compartment; Resecretion; pH probe (Rahim, A.T.M.A. (1082) 195)

Fluorescence
Factor analysis; Principal components analysis; Chlorophyll-protein complex; (Pea chloroplast) (Ross, R.T. (1056) 317)

Phospholipid transfer protein; Transfer protein; Plasmalogen; Pyrene-labeled glycerophospholipid; Yeast (Szolderits, G. (1063) 197)

Membrane permeability; Microwave radiation; Liposome; 5(6)-Carboxyfluorescein (Saalman, E. (1064) 124)

Temperature adaptation; Homeoviscous adaptation; Desaturase; DPH polarization (Wodtke, E. (1064) 343)

Angiotension II analog; Membrane receptor; Long lifetime tyrosinate fluorescence (LTF) (Turner, R.J. (1065) 21)

Confocal microscopy; Imaging; Exocytosis; Hormone release; Mast cell (Kawasaki, Y. (1067) 71)

Liposome; Phospholipid exchange protein; (CHO cell) (Sleight, R.G. (1067) 259)

Neuron; Membrane potential; Dye; Styryl dye; Electrochromism; Solvatochromism (Fromherz, P. (1068) 149)

Tachyplesin I; Lipid membrane; Permeability; (*E. coli*) (Matsuzaki, K. (1070) 259)

ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Pressure effect; Prodan; Fluo-3; Calcium ion indicator; (Rabbit) (Jona, I. (1070) 355)

Parvalbumin; EF-hand; Calcium binding (Permyakov, E.A. (1076) 67)

Bacteriorhodopsin; Chemical modification; Fluorescamine; Forster resonance energy transfer; (*H. halobium*) (Sonar, S.M. (1076) 239)

Earthworm hemoglobin; Hemoglobin; Front-face fluorometry; Subunit dissociation (Harrington, J.P. (1076) 351)

Tryptophan; Succinimide; 3-Phosphoglycerate kinase; Protein dynamics (Varley, P.G. (1077) 19)

Interleukin-2; Molten globule; Circular dichroism (Dryden, D. (1078) 94)

Protein folding; Circular dichroism; FPLC; Cysteine proteinase inhibitor; Stefin A (Žerovnik, E. (1078) 313)

Lipid oxidation; Sphingomyelin; *tert*-Butyl hydroperoxide; Lipid bilayer; Conjugated diene; NMR, ^1H-; Infrared (Lamba, O.P. (1081) 181)

Lipid transfer protein; Cholesteryl ester transfer protein; Apolipoprotein; Pyrene cholesteryl ester; (Human plasma) (Milner, T.G. (1082) 71)

LDL; Ganglioside; Flotation; Affinity chromatography; (Human) (Mikhailenko, I.A. (1085) 299)

Anthracycline; Adriamycin; Drug resistance; Cytoplasmic concentration (Frezard, F. (1091) 29)

Doxorubicin; Acidic phospholipid; Lipid order and mobility; Drug–membrane interaction; NMR (De Wolf, F.A. (1096) 67)

Fluorescence anisotropy
Cellular anthracycline distribution; Multidrug resistance (Lankelma, J. (1093) 147)

Fluorescence change
Pregnancy zone protein; α_2-Macroglobulin; Proteolytic enzyme; Stopped flow kinetics (Christensen, U. (1076) 91)

Fluorescence decay
Energy transfer kinetics; Photosynthesis; Chlorophyll fluorescence; Exciton migration; Kinetic model (Beauregard, M. (1060) 271)

Fluorescence depolarization
Growth hormone-releasing factor; Fluctuation; Rotation; Phospholipid (Honda, S. (1068) 81)

DSC; Homoserine lipid; Lipid phase transition; (*Chlamydomonas*) (Sato, N. (1082) 108)

Fluorescence dequenching
Fusion; Poly(ethylene glycol); Small unilamellar vesicle; (*M. capricolum*) (Salman, M. (1063) 209)

Sendai virus; Membrane fusion; (HL-60 cell); (CEM cell) (Pedroso de Lima, M.C. (1070) 446)

Fluorescence emission
Excitation energy transfer; Photosystem II; Antenna model; Light-harvesting chlorophyll *a*/*b* protein complex II; (Spinach and barley thylakoids) (Jennings, R.C. (1060) 245)

Fluorescence energy transfer
ATPase, Ca^{2+}-transport; Lipid–protein interaction (Verbist, J. (1063) 1)

Fluorescence induction
Photoinhibition; Photosystem II; Absorbance change; Photosystem heterogeneity; Membrane fractionation (Neale, P.J. (1056) 195)

Photosystem II heterogeneity; Chlorophyll fluorescence; DCMU (Hsu, B.-D. (1056) 285)

Fluorescence microphotolysis
Pore size; Perforin pore; Confocal laser scanning microscopy (Sauer, H. (1063) 137)

Fluorescence microscopy
Planar model membrane; Cell surface immunochemistry; Translational diffusion; Fluorescence photobleaching recovery (Timbs, M.M. (1064) 219)

Fluorescence photobleaching
Cholesterol; Dehydroergosterol; Membrane domain; Erythrocyte; Fluorescence quenching; (Human) (Schroeder, F. (1066) 183)

Fluorescence photobleaching recovery
Planar model membrane; Cell surface immunochemistry; Translational diffusion; Fluorescence microscopy (Timbs, M.M. (1064) 219)

Fluorescence polarization
Porphyrin–liposome interaction; Hematoporphyrin; Protoporphyrin; Liposome; Membrane; Fluorescence quenching (Ricchelli, F. (1065) 42)

Skeletal muscle sarcolemma; Hyperthyroidism; Lipid content; Phospholipid fatty acid composition; Membrane fluidity; Calcium pump; ATPase, Ca^{2+}-; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

Capsaicin; Plasma membrane fluidity; Anisotropy; Platelet aggregation (Meddings, J.B. (1070) 43)

$n-3$ Polyunsaturated fatty acid; Synaptic vesicle; Plasma membrane; Lipid composition; Membrane fluidity; (Rat brain) (Zérouga, M. (1086) 295)

Fluorescence quenching
High energy state; Chlorophyll fluorescence; Quenching (Ruban, A.V. (1059) 355)

Porphyrin–liposome interaction; Hematoporphyrin; Protoporphyrin; Liposome; Membrane; Fluorescence polarization (Ricchelli, F. (1065) 42)

Calcium ion adsorption; Phosphatidylcholine vesicle; Surface property; Sonicated vesicle (Bakás, L.S. (1065) 114)

Spectrin; Fatty acid; EPR; Erythrocyte ghost; (Human) (Streichman, S. (1066) 9)

Cholesterol; Dehydroergosterol; Membrane domain; Erythrocyte; Fluorescence photobleaching; (Human) (Schroeder, F. (1066) 183)

α_1-Proteinase inhibitor; Red-edge excitation; Protein structure (Ko łoczek, H. (1073) 619)

Transferrin; Energy transfer; Pentaammine ruthenium-histidine (Martin, D.M. (1076) 252)

Muscle contraction; Myosin; Actomyosin interaction; Myosin light chain (Bhandari, D.G. (1077) 385)

Fluorescence recovery
Cytochrome b_5; Fusion protein; β-Galactosidase; Plasma membrane; Membrane association (George, S.K. (1066) 131)

Fluorescence response
Calcium; Chlortetracycline; Neutrophil; Membrane transport (Jacob, J. (1091) 317)

Fluorescence spectroscopy
SMS 201–995; Somatostatin analog; Circular dichroism; NMR, ^{2}H-; Phospholipid headgroup (Beschiaschvili, G. (1061) 78)

Fluorescence spectroscopy and polarization
Aldolase; NADH binding; Phosphorescence at room temperature; (Rabbit muscle) (Sytnik, A.I. (1079) 123)

Fluorescence yield
Excitation annihilation; Bacteriochlorophyll; Antenna complex; (*Rps. acidophila*) (Deinum, G. (1060) 125)

Fluorescent dye
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Photochemical surface labeling (Molnar, E. (1068) 27)

Fluorescent phospholipid
Phosphatidylserine transfer protein; Phospholipid transport; Phosphatidylethanolamine; Yeast cytosol; (*S. cerevisiae*) (Lafer, G. (1069) 139)

Phospholipid transfer protein; Spin label; EPR; (Maize seed) (Geldwerth, D. (1082) 255)

Fluorescent probe
Pulmonary surfactant; Two-phase region (Nag, K. (1068) 157)

Fluoride
1,25-Dihydroxyvitamin D-3; Skeletal muscle; G protein; Calcium uptake (De Boland, A.R. (1094) 238)

Fluoride effect
Sarcoplasmic reticulum; Calcium pump; Heart muscle (Narayanan, N. (1070) 83)

2-Fluoro-β-alanine
Enterohepatic circulation; Bile acid conjugation (Zhang, R. (1096) 179)

Fluorocarbon
Lipid vesicle; Freeze-fracture; Oxygen carrier; Phospholipid emulsion (Postel, M. (1086) 95)

Fluorometry
Lipid peroxidation; Peroxidative damage; Protein conformation; *N*-(1-Pyrene)maleimide; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (1067) 159)

Cathepsin; Papain; Cysteine proteinase; Lysosomal enzyme (Tchoupé, J.R. (1076) 149)

1-Anilinonaphthalene-8-sulfonic acid; Nucleotide binding; Enzyme regulation; Rubisco activase (Wang, Z.-Y. (1079) 263)

5′-*p*-Fluorosulfonylbenzoylinosine
ATPase, F_1-; 7-Chloro-4-nitrobenzofurazan; Enzyme inactivation (Bullough, D.A. (1057) 208)

Fluorouracil
Thymidylate synthase; Thymidine kinase; DNA synthesis; Liver regeneration; (Rat) (Tsukamoto, I. (1074) 52)

Flux
Oocyte; Glucose transport; Sodium ion/glucose cotransporter; Expression; Voltage clamp; (*Xenopus laevis*) (Weber, W.-M. (1063) 73)

Flux control coefficient
Metabolic regulation; Theoretical model; Graph-theoretic analysis (Sen, A.K. (1059) 293)

FM3A mutant
Cell growth; G258; Oligosaccharide synthesis; Lipid synthesis (Nishikawa, Y. (1091) 135)

FMN-binding site
NADH:ubiquinone reductase; Complex I; NAD(H)-binding site; Iron-sulfur cluster; (*Neurospora crassa*) (Preis, D. (1090) 133)

Formate
Cytochrome *c* oxidase; Ligand binding; Electron paramagnetic resonance; Cyanide; Halide; (Bovine heart) (Moody, A.J. (1059) 189)

Formycin B transport;
Mycoplasma contamination; (Mammalian cell culture) (Plagemann, P.G.W. (1064) 162)

***N*-Formylmethionylleucylphenylalanine**
Thromboxane A_2; PAF; (Human polymorphonuclear neutrophil) (Kishino, J. (1092) 169)

Chemotactic peptide receptor; Iodothyronine; Superoxide; (Human neutrophil) (Aoyagi, K. (1093) 223)

Phospholipase A_2; Phospholipase C; HL60; Inositol phosphate; Guanine nucleotide (Nielson, C.P. (1095) 83)

Forster resonance energy transfer
Bacteriorhodopsin; Chemical modification; Fluorescamine; Fluorescence; (*H. halobium*) (Sonar, S.M. (1076) 239)

Fourier transform Raman spectroscopy
Photosynthesis; Light harvesting complex; Pigment–protein interaction; Bacteriochlorophyll; (*Rb. sulfidophilus*) (Mäntele, W. (1057) 367)

FPLC
Protein folding; Fluorescence; Circular dichroism; Cysteine proteinase inhibitor; Stefin A (Žerovnik, E. (1078) 313)

Apolipoprotein-specific HDL; Chemical crosslinking; Human cord blood; Immunoaffinity chromatography (Nichols, A.V. (1085) 306)

Free fatty acid
Membrane lipid; Acyl-CoA; Metabolism; Lipid partition; (Mouse sciatic nerve) (Juguelin, H. (1068) 41)

ATPase, H^+/K^+-; Phosphorylation; Detergent; Orientation (Swarts, H.G.P. (1070) 283)

Free radical
Superoxide production; Enzymic mechanism (Cross, A.R. (1057) 281)

Nitroxide metabolism; Red blood cell; Doxyl stearic acid; Hemoglobin; Hypoxia (Minetti, M. (1074) 112)

Spin trapping; EPR; Superoxide; Hydrogen peroxide; Hydroxyl radical; 5,5-Dimethylpyrroline *N*-oxide (Britigan, B.E. (1075) 213)

1-Aminocyclopropane-1-carboxylic acid; Ethylene; Ethylene forming enzyme; Hydroperoxide; Peroxidase; Manganese (Acosta, M. (1077) 273)

Free volume
Aqueous two-phase system; Partition coefficient; Poly(ethylene glycol); Dipeptide (Eiteman, M.A. (1073) 451)

Freeze-clamped liver
Ethanol; Phosphorylation potential; (Hepatocytes) (Spach, P.I. (1056) 40)

Freeze-concentration
Carbonyl hemoglobin; Carbonyl myoglobin; Conformer population; (Infrared spectroscopy) (Astl, G. (1080) 155)

Freeze-fracture
ATP/ADP translocator; Mitochondrial membrane; Contact site; ADP (Bücheler, K. (1056) 233)

Melittin; [Ala-14]Melittin; Dimyristoylphosphatidylcholine; Vesicle to micelle transition; NMR, ^{2}H-; Electron microscopy (Dempsey, C.E. (1061) 175)

Liposome extrusion; LUVET; Liposome; Extrusion apparatus; Rapid freezing (MacDonald, R.C. (1061) 297)

Dipalmitoylphosphatidylcholine; Liposome; Ascorbate oxidase; Protein–lipid interaction (Dini, L. (1062) 108)

Bleb formation; Electroinduced bleb; Cell deformation; DNA transfer; Electro-transformation; (*E. coli* membrane) (Sabelnikov, A.G. (1066) 21)

NMR, ^{2}H-; Polymorphism; Stratum corneum lipid; Barrier function; Ceramide; Hexagonal phase (Abraham, W. (1068) 189)

Membrane fusion; Phospholipase C; Diacylglycerol; Non-bilayer phase; Fast freezing (Burger, K.N.J. (1068) 249)

Monoacylglycerol; Phosphatidylcholine; Phase behavior; NMR, ^{31}P-; Dynamic light scattering (Yin, C.-C. (1070) 33)

Fluorocarbon; Lipid vesicle; Oxygen carrier; Phospholipid emulsion (Postel, M. (1086) 95)

Freeze-thaw
Giant vesicle; Ion channel reconstitution; Potassium ion channel; Sarcoplasmic reticulum; Membrane fusion (Hirashima, N. (1067) 235)

ATPase, Ca^{2+}-; Membrane protein; Denaturation; Amino acid (Lalonde, R.J. (1079) 128)

Freeze-thaw sonication
Sarcoplasmic reticulum; Calcium ion pump; ATPase, Ca^{2+}-; Proteoliposome; Skeletal muscle; (Rabbit) (Szymańska, G. (1091) 127)

Frog heart
Optical recording; Optical fiber; Action potential; Voltage-sensitive dye; Membrane fluorescence (Bowmaster, T.A. (1091) 9)

Front-face fluorometry
Earthworm hemoglobin; Hemoglobin; Fluorescence; Subunit dissociation (Harrington, J.P. (1076) 351)

Fructation
Maillard reaction; Pyrrole compound; Reductive methylation; (Amino group); (Aldol condensation) (Suárez, G. (1075) 12)

Fructose
Hepatocyte; Mitochondrion; 2-Phosphoglycerate; Atractyloside (Grivell, A.R. (1059) 45)

Fructose bisphosphate
Substrate modulated interaction; Bienzyme complex; Specificity; Dynamism (Vértessy, B.G. (1078) 236)

Fructose 2,6-bisphosphate
Glycolysis; Glucocorticoid; (Thymocyte) (Moreno-Aurioles, V.R. (1091) 96)

Thimerosal; Thymus lymphocyte; Intracellular calcium; pH, intracellular (Martín, F. (1091) 110)

Glycolysis; Insulin; Glucose; (Human hepatocyte) (López, M.P. (1094) 200)

B-chronic lymphocytic leukemia; Phorbol ester; Protein kinase C (Colomer, D. (1097) 270)

FSH
LHRH; Amplitude; Duration; LH; Cell culture; Pituitary (Kellom, T.A. (1092) 101)

F_o subunit
ATP synthase, F_0F_1-; ATP synthase; Proton conduction (Guerrieri, F. (1059) 348)

FTIR
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Protein conformation; ATP, caged (Barth, A. (1057) 115)

Membrane dynamics; Flexibility gradient; Cholesterol; Gramicidin A; Cytochrome *c* (Castresana, J. (1065) 29)

Phospholipid; Cardiolipin; Diphosphatidylglycerol; Deoxycardiolipin; Hydrogen bonding (Hübner, W. (1066) 166)

Sarcoplasmic reticulum; ATPase, Ca^{2+}- (Buchet, R. (1068) 201)

Sarcoplasmic reticulum; Calcium ion; Caged calcium; ATPase, Ca^{2+}- (Buchet, R. (1069) 209)

Tyrosinase; Melanin; Estradiol; 2-Hydroxyestradiol; Estradiol-2,3-quinone; Dopa (Jacobsohn, M.K. (1073) 1)

Insulin; Despentapeptide insulin; Desoctapeptide insulin; Secondary structure (Wei, J. (1080) 29)

Adenylic acid; Alkaline earth; Conformational change; NMR, ^{1}H-; X-ray diffraction (Tajmir-Riahi, H.-A. (1087) 49)

α-L-Fucose
Phorbol ester; Anion exchange; Lectin (Engelmann, B. (1091) 261)

α-Fucosidase
Lysosomal enzyme; Glycoprotein; Subcellular distribution; (Human skin fibroblast) (Johnson, K.F. (1073) 120)

Function
Cardiac structure; Acidosis; Ischemia; Long-chain acylcarnitine; Carnitine palmitoylcoenzyme A transferase (Hülsmann, W.C. (1097) 263)

Fungicide
Uncoupler; Uncoupling activity; Oxidative phosphorylation; Metabolism (Guo, Z.-j. (1056) 89)

Fura-2
Ion channel; Calcium ion; Chloride; SF-9 cell; δ-Endotoxin; (*B. thuringiensis*) (Schwartz, J.-L. (1065) 250)

Chromaffin cell; Lead ion influx; Calcium ion channel; Voltage dependence; Dihydropyridine sensitivity (Tomsig, J.L. (1069) 197)

Calcium ion spike; Chief cell; (Canine gastric mucosa) (Tsunoda, Y. (1091) 251)

Volatile anesthetic; Norepinephrine release; Protein kinase C; Calcium concentration, cytoplasmatic (Tas, P.W.L. (1091) 401)

Endotoxin; Lipopolysaccharide; Calcium ion; pH; BCECF; (Hepatocyte) (Portolés, M.T. (1092) 1)

Furosemide
Beta-cell membrane; Volume regulation; Cotransport; Rubidium ion efflux; (Mouse) (Engström, K.G. (1091) 145)

Fusion
Poly(ethylene glycol); Small unilamellar vesicle; Fluorescence dequenching; (*M. capricolum*) (Salman, M. (1063) 209)

Phospholipid vesicle; Lipid packing; Membrane permeability; pH dependence; Lipid arrangement (Massari, S. (1067) 131)

Fusion lag
Membrane fusion; Fusion process; Liposome; Clathrin (Maezawa, S. (1070) 429)

Fusion peptide
Membrane fusion; Virus; LUV; Fusion protein; NMR, ^{31}P-; (Sendai virus); (Measles virus) (Yeagle, P.L. (1065) 49)

Influenza virus hemagglutinin; Hemagglutinin; Lipid monolayer; Surface activity; Membrane fusion (Burger, K.N.J. (1065) 121)

Fusion process
Membrane fusion; Fusion lag; Liposome; Clathrin (Maezawa, S. (1070) 429)

Fusion protein
Chimeric protein; Cytochrome b_5; Hydrophobic domain; β-Galactosidase; Phosphatidylcholine; Liposome (George, S.K. (1061) 26)

Membrane fusion; Virus; LUV; Fusion peptide; NMR, ^{31}P-; (Sendai virus); (Measles virus) (Yeagle, P.L. (1065) 49)

Cytochrome b_5; β-Galactosidase; Plasma membrane; Membrane association; Fluorescence recovery (George, S.K. (1066) 131)

λGT11 expression vector; Apolipoprotein E; LDL(B/E) receptor; Fibroblast (Ribeiro, A. (1087) 219)

G

G258
Cell growth; FM3A mutant; Oligosaccharide synthesis; Lipid synthesis (Nishikawa, Y. (1091) 135)

Galactolipid
Thylakoid; Bilayer; Photosynthesis; Lipid property (Webb, M.S. (1060) 133)

Chloroplast biogenesis; Thylakoid biogenesis; Cell-free system; (*S. oleracea*); (*P. sativum*) (Morré, D.J. (1070) 437)

Galactoprotein
Heat-labile toxin; Intestinal brush border; Binding site; Development; (*E. coli*) (Griffiths, S.L. (1075) 154)

Galactose
Absorption; Adaptation; Alcohol; Cholesterol; Fatty acid; Glucose; Hexose (Thomson, A.B.R. (1084) 122)

Enterocyte differentiation; Brush-border enzyme; (Mouse intestine) (Smith, M.W. (1093) 144)

Galactose-terminated glycoprotein
Asialoglycoprotein receptor; cDNA sequence; Hepatic lectin (Sanford, J.P. (1087) 259)

β-Galactosidase
Chimeric protein; Fusion protein; Cytochrome b_5; Hydrophobic domain; Phosphatidylcholine; Liposome (George, S.K. (1061) 26)

Cytochrome b_5; Fusion protein; Plasma membrane; Membrane association; Fluorescence recovery (George, S.K. (1066) 131)

β-Galactoside binding protein
Carbohydrate binding protein; Eukaryotic promoter; Gene expression; (Mouse) (Chiariotti, L. (1089) 54)

Galactosyl binding site
Ricin B chain; Liposome; Transfection; (Rat hepatoma cell) (Friede, M.H. (1069) 273)

Galactosyltransferase
Oligosaccharide; Lactation; Tammar (Messer, M. (1077) 79)

***β-gal* gene**
Gene transfection; Electroporation; Electropermeabilization; Radiofrequency electric field; COS-M6 cell; CV-1 cell (Zheng, Q. (1088) 104)

Gallium
Aluminum; Hemodialysis; (Lymphocyte) (McGregor, S.J. (1095) 196)

α-D-GalNAc unit
Oligosaccharide, neutral; Carbohydrate structure; NMR, ^{13}C-; Colostrum, bovine (Urashima, T. (1073) 225)

Ganglioside
Macrophage; Bone marrow; Liposome; Reticuloendothelial system; Poly(ethylene glycol) (Allen, T.M. (1061) 56)

Liposome; Circulation time; Poly(ethylene glycol); Targeted drug delivery; Drug targeting (Klibanov, A.L. (1062) 142)

Liposome; Drug delivery system; Splenic macrophage (Liu, D. (1066) 159)

Lysoganglioside; Gangliosidosis; HPLC (Kobayashi, T. (1081) 159)

Medulloblastoma; Glycosyltransferase; Xenograft; Sphingolipid (Gottfries, J. (1081) 253)

Ganglioside shedding; (Human neuroblastoma cell line) (Li, R. (1083) 57)

GM2; Transformation; SV40 (Hoffman, L.M. (1084) 94)

LDL; Flotation; Fluorescence; Affinity chromatography; (Human) (Mikhailenko, I.A. (1085) 299)

N-Glycolylneuraminic acid; (Bovine brain) (Nakao, T. (1086) 305)

Ganglioside G_{M1}
Liposome; Prolonged circulation; Protein drug; Peptide drug; Drug delivery system; Ricin (Maruyama, K. (1070) 246)

Metabolism; Cholera toxin (Pacuszka, T. (1083) 153)

Interleukin-2; Cholera toxin B subunit; Lymphocyte proliferation (Sharom, F.J. (1094) 35)

Ganglioside shedding
Ganglioside; (Human neuroblastoma cell line) (Li, R. (1083) 57)

Gangliosidosis
Lysoganglioside; Ganglioside; HPLC (Kobayashi, T. (1081) 159)

Gas-phase reaction
Pyrophosphate hydrolysis; Ab initio calculation; Enzyme mechanism (Saint-Martin, H. (1080) 205)

Gastric digestion
Bile salt stimulated lipase; Gastric lipase; Milk lipid; Suckling neonate (Iverson, S.J. (1083) 109)

Gastric lipase
Bile salt stimulated lipase; Gastric digestion; Milk lipid; Suckling neonate (Iverson, S.J. (1083) 109)

Phospholipase A_2; Carboxyl ester lipase; Hydrolysis (Lindström, M.B. (1084) 194)

Pancreatic lipase; Enzyme inactivation (Gargouri, Y. (1085) 322)

Gastric mucosa
Phospholipase A_2; Subcellular localization; (Rat) (Grataroli, R. (1082) 130)

Gastric secretion
Alkaline phosphatase; Cholecystokinin; Bethanecol; (Rat intestine) (Eliakim, R. (1091) 1)

Gastric ulcer
5-Lipoxygenase; Sulfidopeptide-leucotriene; Arachidonic acid; 5-Hydroxyicosatetraenoic acid; Oxygen saturation; Mucosal blood flow (Pasechnikov, V.D. (1097) 45)

Gating
Membrane; Protein translocation; Second messenger; Lipid bilayer; (Diphtheria toxin channel) (Kagan, B.L. (1069) 145)

Gaucher disease
Glucocerebrosidase; Glucosylceramide lipidosis; Lysosomal hydrolase; Glycosphingolipidosis; Enzymic activity in situ (Van Weely, S. (1096) 301)

GC box
Protein phosphatase 2A; Catalytic subunit; CAT assay; CRE sequence (Kitagawa, Y. (1089) 339)

GC-MS
Arachidonic acid metabolism; Ionophore A23187; Immunological challenge; Antigen; (Mast cell) (Nakamura, T. (1085) 191)

Platelet activating factor; 1-*O*-Acyl-2-*O*-acetyl-*sn*-glycero-3-phosphocholine; Endothelial cell; Phospholipid molecular species; Mass spectrometry (Clay, K.L. (1094) 43)

Gelatinase
Collagenase, type IV; Tissue inhibitor; Metalloproteinase; Interleukin-1; Tumor necrosis factor α; (Rabbit); (Articular chondrocyte) (Lefebvre, V. (1094) 8)

Gel-liquid crystalline transition
Dimyristoylphosphatidylcholine; Liposome; Insulin; Lytic action; Monomyristoylphosphatidylcholine; Enthalpic change; Phase transition (Senisterra, G.A. (1064) 148)

Gel mobility shift
CAP; Chloramphenicol acetyltransferase; Transfection (Kihara, F. (1089) 227)

Gel phase
Lipid monolayer; Phosphatidylcholine; Phospholipase A_2; Line defect; Theoretical model; Computer simulation (Pink, D.A. (1065) 167)

Gel retardation
Biotin repressor; Biotin operator; Binding stoichiometry (Lin, K.-C. (1090) 317)

Gel retardation assay
Glucocorticoid-receptor complex; Cytochrome *CYP2B2* gene (Plisov, S.Y. (1095) 114)

Gelsolin
Amyloid protein; Point mutation; Familial amyloid polyneuropathy type IV (Maury, C.P.J. (1096) 84)

Gene
Calcium ion pump; Sarcoplasmic/endoplasmic reticulum; (Pig) (Eggermont, J.A. (1088) 448)

Gene amplification
Coenzyme A reductase; Transcription suppression; Gene localization; (CR200 cells) (Hasumi, K. (1083) 289)

Dihydrofolate reductase gene; Drug resistance (Hamlin, J.L. (1087) 107)

Drug resistance; Ribonucleotide reductase regulation; Hydroxyurea resistance (Hurta, R.A.R. (1087) 165)

K-fgf proto-oncogene; Cell transformation; Metastasis (Damen, J.E. (1097) 103)

Gene amplification model
Inverted duplication; Amplicon; Amplified oncogene (Fried, M. (1090) 143)

Gene cassette
Reaction center protein; Heterologous expression in *E. coli*; Protein A fusion; Affinity chromatography; (*Rhodobacter sphaeroides*) (Söhlemann, P. (1089) 103)

Gene characterization
Photosynthesis; Photosystem I; Amino acid sequence; (Cucumber cotyledons) (Iwasaki, Y. (1059) 141)

3-Oxoacyl-CoA; Thiolase deficiency; β-Oxidation; Peroxisome; (Human) (Bout, A. (1090) 43)

Gene cloning
Aspartate; Racemase; Sequence; Overexpression; (*Streptococcus thermophilus*) (Yohda, M. (1089) 234)

Gene expression
Thymidylate synthase; Recombinant DNA; Enzyme purification; NMR, ^{19}F-; (Mouse); (*E. coli*) (Zhang, H. (1077) 35)

Hyperlipidemia; Atherosclerosis; Apolipoprotein; LDL receptor; Hypolipidemic drug; Probucol (Staels, B. (1085) 131)

LDL receptor; Apolipoprotein B; Diet; Mouse strain (Srivastava, R.A.K. (1086) 29)

Plasma protein; Transcription factor; Deleted mutant; (Bombyx) (Sakurai, H. (1087) 18)

Lactate dehydrogenase gene; Cloning; Human; (*B. stearothermophilus*) (Barstow, D.A. (1087) 73)

Surfactant associated protein; Pulmonary surfactant; Recombinant DNA; Recombinant protein; (Chinese hamster ovary cell line); (Rat) (McCormack, F.X. (1087) 190)

Hypoxanthine-guanine phosphoribosyltransferase; Lesch-Nyhan; Gout; Recombinant enzyme; Human erythrocyte (Free, M.L. (1087) 205)

Poly(ADP-ribose) polymerase; Liver regeneration; Cell proliferation; DNA replication; DNA repair; Protein modification (Cesarone, C.F. (1087) 241)

Superoxide dismutase; Manganese enzyme; cDNA cloning; Amino acid sequence; (Human) (Church, S.L. (1087) 250)

Isoamylase gene; Nucleotide sequence; DNA sequence; (*P. amyloderamosa*) (Chen, J.H. (1087) 309)

mRNA; Mitogen stimulation; Enzyme activity; Hypoxanthine phosphoribosyl transferase gene; (Human lymphocyte) (Steen, A.-M. (1088) 77)

Transcription control; Transcription activity; Promoter sequence; (*S. aureofaciens* 2201) (Farkašovský, M. (1088) 119)

Cytochrome, *c*-type; Inclusion body; (*Escherichia coli*); (*Rhodopseudomonas viridis*) (Grisshammer, R. (1088) 183)

Amidase gene; Cloning; (*Rhodococcus*); (*E. coli*) (Hashimoto, Y. (1088) 225)

Metallothionein; 5-Azacytidine; Copper increase; Atomic absorption analysis; (Human Hep G2 cell) (Foster, R. (1088) 373)

Casein kinase II; cDNA; (Mouse); (Pig) (Boldyreff, B. (1088) 439)

Cytochrome *d* terminal oxidase; Membrane-bound protein; (*E. coli*) (Newton, G. (1089) 8)

Collagen; Glucocorticoid; Steroid receptor; Dexamethasone; (Heart); (Tendon) (Oikarinen, A. (1089) 40)

β-Galactoside binding protein; Carbohydrate binding protein; Eukaryotic promoter; (Mouse) (Chiariotti, L. (1089) 54)

Collagen; mRNA; recombinant DNA; (Mouse) (Metsäranta, M. (1089) 241)

Glutamate dehydrogenase; Olivoponto-cerebellar atrophy; cDNA cloning; Amino acid sequence; Signal peptide; (Mouse) (Tzimagiorgis, G. (1089) 250)

Parathyroid hormone; Translation initiation region; (Human gene); (*E. coli*) (Morelle, G. (1089) 320)

Creatine kinase; Mitochondrion; Isoenzyme; Creatine phosphate shuttle; Regulation (Payne, R.M. (1089) 352)

Heparin-binding growth factor-1; HBGF-1; Acidic fibroblast growth factor; aFGF (Sullivan, D.E. (1090) 17)

Recombinant human CNTF; Neural cell; Bioactivity; (*E. coli*) (McDonald, J.R. (1090) 70)

β-Actin promoter; Copy number; (Human cell) (Morishita, H. (1090) 216)

Thryroglobulin gene; DNAase I footprinting; (Canine) (Donda, A. (1090) 235)

Glycogenolytic enzyme; Lung maturation; (Rabbit) (Newgard, C.B. (1090) 333)

Tumor necrosis factor; Synthetic gene; Site-directed mutagenesis; Random mutagenesis; Mutein; (Human) (Ito, R. (1096) 245)

Gene family
Minor small nuclear ribonucleoprotein; Histone gene; RNA 3′ processing; (*Mus musculus*) (Gruber, A. (1088) 151)

cDNA cloning; Proteosome (Tamura, T. (1089) 95)

Plasma protein; Genomic sequence; Promoter; (Silkworm); (*Bombyx mori*) (Mori, S. (1090) 129)

Gene localization
Coenzyme A reductase; Gene amplification; Transcription suppression; (CR200 cells) (Hasumi, K. (1083) 289)

Gene mutant
Molybdopterin; Molybdenum cofactor; *nit* gene; (*C. reinhardtii*) (Aguilar, M.R. (1073) 463)

Gene mutation
Apolipoprotein B; Receptor binding domain; LDL receptor; Hypercholesterolemia; (Human fibroblast) (Dunning, A.M. (1096) 231)

Gene *psaB*
Photosystem I; *psaB* gene; Directed mutagenesis; Cyanobacterium; (*A. variabilis*) (Toelge, M. (1060) 233)

Gene regulation
Myogenesis; Cardiac actin gene; (Human gene); (Rat myoblast) (Colledge, W.H. (1087) 39)

lac operon; Operon; DNA binding protein (Khoury, A.M. (1087) 55)

α_1-Microglobulin; Tissue-specific gene expression; mRNA; cDNA cloning; (Pig) (Tavakkol, A. (1088) 47)

Erythroid differentiation; Poly(ADP-ribose) synthetase; Hemin induction; (Human leukemia cell) (Tomoda, T. (1088) 359)

α_1-Acid glycoprotein gene; mRNA; Acute-phase response; Aging (Carter, K.C. (1089) 197)

Gene replacement therapy
Liposome; Transfection; DNA (Hug, P. (1097) 1)

Gene sequence
Interferon ω1; Interferon ω1, recombinant; Glycosylation; Signal peptide; Recombinant CHO cell; (Human) (Adolf, G.R. (1089) 167)

Gene structure
Calmodulin gene; Evolution; Promoter; (Human) (Koller, M. (1087) 180)

Islet amyloid polypeptide; Amylin; IAPP gene; Type 2 diabetes mellitus; Diabetes mellitus; (Rat); (Human) (Van Mansfeld, A.D.M. (1087) 235)

Insulin-like growth factor; IGF-II; Human gene; Promoter (Holthuizen, P. (1087) 341)

Binding protein; Molecular cloning; Sequence similarity; (Silk moth) (Krieger, J. (1088) 277)

Prostatic secretory protein; Promoter sequence; (Monkey); (Human) (Nolet, S. (1089) 247)

Seminal vesicle secretory protein; (Bovine) (Bräuer, C. (1090) 259)

γ-Crystallin; Amino acid sequence; (*C. carpio*) (Chang, T. (1090) 261)

Familial amyloidotic polyneuropathy; Transthyretin (Harding, J. (1097) 183)

Gene therapy
DNA; Transfection; Polylysine; Drug delivery; Drug targeting (Zhou, X. (1065) 8)

Genetic engineering
Protein synthesis; Elongation factor Tu; Site-directed mutagenesis; (*E. coli*) (Pieper, U. (1087) 147)

Genetic modification
Photosynthesis; Reaction center; Resonance Raman spectrum; Electron transfer; Pigment–protein interaction (Peloquin, J.M. (1056) 85)

Genetic obesity
Amino acid; Red cell (Serra, F. (1097) 289)

Genetic polymorphism
Cytochrome *P*-450; DNA sequence; (Human) (Ged, C. (1088) 433)

Genetics
Drug resistance; P-glycoprotein; (Yeast) (Balzi, E. (1073) 241)

Genetic transformation
Molecular evolution; Xanthine dehydrogenase; *Rosy* locus; Transcription; (*Calliphora vicina*); (*Drosophila melanogaster*); (*Dipteran*) (Tiveron, M.-C. (1088) 390)

Gene transcription
Tumor necrosis factor; Lipopolysaccharide; Untranslated region; mRNA; (Macrophage) (Han, J. (1090) 22)

Gene transfection
Interleukin-2 gene; T cell; Calcium-inducible expression; (Human) (Gulino, A. (1087) 7)

Electroporation; Electropermeabilization; Radiofrequency electric field; COS-M6 cell; CV-1 cell; β-*gal* gene (Zheng, Q. (1088) 104)

Gene transfection: Electroporation
Radiofrequency electric field; Electropermeabilization (Chang, D.C. (1092) 153)

Gene transfer
TPA; Protein kinase C (Reston, J.T. (1088) 270)

Genomic DNA
Phospholipase A_2; Platelet (Kusunoki, C. (1087) 95)

Genomic organization
Lysozyme gene; Nucleic acid sequence; (Chicken) (Nakano, T. (1090) 273)

Genomic sequence
Growth hormone; Intron; Exon; (Carp); (*C. carpio*) (Chiou, C.-S. (1087) 91)

Prolactin; Palindrome; (Carp) (Chen, H.-T. (1088) 315)

Plasma protein; Gene family; Promoter; (Silkworm); (*Bombyx mori*) (Mori, S. (1090) 129)

Genomic structure
Metallothionein II; Promoter sequence; (Chinese hamster ovary cell) (Hung, S.-H. (1090) 255)

Geranylgeranyl diphosphate synthase
Enzyme purification (Laferrière, A. (1077) 167)

Germination
Hydrogen peroxide metabolism; Superoxide dismutase; (Soybean) (Puntarulo, S. (1074) 277)

Gestation
Prothrombin mRNA; mRNA; Developmental expression; Tissue-type expression; (Rat) (Jamison, C.S. (1088) 208)

Giant vesicle
Ion channel reconstitution; Potassium ion channel; Sarcoplasmic reticulum; Freeze-thaw; Membrane fusion (Hirashima, N. (1067) 235)

GIP
Insulin secretion; Priming; GLP-1 (7-36) amide; Cholecystokinin-8; Rat pancreas (Fehmann, H.-C. (1091) 356)

Glia
Extracellular matrix; Hyaluronate binding protein (Perides, G. (1075) 248)

Glial cell
β-Oxidation; Peroxisome; (Rat brain) (Lageweg, W. (1085) 381)

Globin
Amino acid sequence; (*C. (Molpadia) arenicola*) (Mauri, F. (1078) 63)

Globin gene
Mollusc; (*Anadara*) (Titchen, D.A. (1089) 61)

β^A-Globin gene
Chromatin structure; DNA intercalator; Ethidium bromide; DNAase I-hypersensitive site, β^A-Globin gene; (Chicken erythrocyte) (Zhu, J.-d. (1089) 158)

GLP-1 (7-36) amide
Insulin secretion; Priming; GIP; Cholecystokinin-8; Rat pancreas (Fehmann, H.-C. (1091) 356)

Glucagon
Oxyntomodulin (19–37); Somatostatin release; Inositol phosphate; Calcium ion; (RIN T3 cell) (Tani, T. (1095) 249)

Glucoamylase
Cyclodextrin; Starch; Binding domain (Belshaw, N.J. (1078) 117)

Glucocerebrosidase
Gaucher disease; Glucosylceramide lipidosis; Lysosomal hydrolase; Glycosphingolipidosis; Enzymic activity in situ (Van Weely, S. (1096) 301)

Glucocorticoid
Pulmonary surfactant; Surfactant protein; Development; Dexamethasone (Shimizu, H. (1081) 53)

Collagen; Gene expression; Steroid receptor; Dexamethasone; (Heart); (Tendon) (Oikarinen, A. (1089) 40)

Glycolysis; Fructose 2,6-bisphosphate; (Thymocyte) (Moreno-Aurioles, V.R. (1091) 96)

rRNA; Nucleolin; Primary cultured hepatocyte; EGF; Insulin (Suzuki, N. (1092) 367)

Lipid lateral diffusion; (CEM-C1 acute lymphoblastic cell); (CEM-C7 acute lymphoblastic cell) (Bulva, C.J. (1094) 134)

Nitric oxide synthase; Adenocarcinoma cell; Cell damage (O'Connor, K.J. (1097) 227)

Glucocorticoid receptor
DNA binding; Chromatin binding; Negative regulation; Heat shock protein; Transcriptional synergism (Muller, M. (1088) 171)

Steroid hormone; Antisteroid; Receptor binding; (Rat liver) (Zakula, Z. (1092) 188)

Glucocorticoid-receptor complex
DNA acceptor site (Seledtsov, I.A. (1089) 367)

Cytochrome *CYP2B2* gene; Gel retardation assay (Plisov, S.Y. (1095) 114)

Glucocorticosteroid
Protein kinase C; Phospholipase A_2; Arachidonic acid release; (Basophilic leukemia cell) (Zor, U. (1091) 385)

Gluconeogenesis
Epidermal growth factor; Redox; (Hepatocyte) (Soler, C. (1091) 193)

Methylglyoxal; Drug oxidation; Glutathione; Hepatocyte (Kalapos, M.P. (1092) 284)

Glucosamine-6-phosphate deaminase
Circular dichroism spectroscopy; Secondary structure prediction (Altamirano, M.M. (1076) 266)

Glucose
Neuroblastoma; Membrane potential; Sodium/potassium pump; (Mouse cell) (Yorek, M.A. (1061) 1)

Absorption; Adaptation; Alcohol; Cholesterol; Fatty acid; Galactose; Hexose (Thomson, A.B.R. (1084) 122)

Lipoprotein secretion; Apolipoprotein B accumulation; Albumin; Oleic acid (Arrol, S. (1086) 72)

Fructose 2,6-bisphosphate; Glycolysis; Insulin; (Human hepatocyte) (López, M.P. (1094) 200)

Glucose dehydrogenase
pH induced dissociation; (*B. subtilis*) (Hilt, W. (1076) 298)

Glucose oxidase
Deglycosylation; (*A. niger*) (Kalisz, H.M. (1080) 138)

Glucose-6-phosphatase
Microsome; Methylthioadenosine sulfoxide; Enzyme modification; Triton X-114; Enzyme conformation; (Rat liver) (Speth, M. (1068) 217)

Chorionic villi; Microsome; (Human placenta) (Barash, V. (1073) 161)

Glycogen storage disease; Glucose transport; Phosphate transport (Burchell, A. (1092) 129)

Glucose-6-phosphate transport; Microsome; Pentamidine (Scott, H.M. (1097) 31)

Glucose-6-phosphate
Glycogen synthase; Protein phosphatase (Villar-Palasi, C. (1095) 261)

Glucose-6-phosphate dehydrogenase
NAD(H); NADP(H); (Human erythrocyte) (Canepa, L. (1074) 101)

Fish oil; Hepatomegaly; Cholesterol; Triacylglycerol synthesis; Malic enzyme; Diacylglycerol acyltransferase; Insulin; (Rat liver) (Otto, D.A. (1082) 37)

Diabetes; Vanadate; Insulin; Malic enzyme (Pugazhenthi, S. (1083) 310)

Fatty acyl-CoA; Estradiol; Progesterone; Uterus (Young, A.J. (1092) 211)

Glucose-6-phosphate dehydrogenase mRNA
Solution hybridization; Epididymal fat pad; (Rat) (Louie, P. (1087) 25)

Glucose-6-phosphate transport
Glucose-6-phosphatase; Microsome; Pentamidine (Scott, H.M. (1097) 31)

Glucose release
Norepinephrine; α_1-Adrenergic receptor; Ketogenesis; Oleate metabolism; cyclic AMP; (Rat hepatocyte) (Nomura, T. (1092) 94)

Glucose transport
Nucleoside transport; Immunoadsorption; Monoclonal antibody; (Human erythrocyte) (Jhun, B.H. (1061) 149)

Integrated rate; Initial rate; Unidirectional efflux; Self exchange; (Human erythrocyte) (Gasbjerg, P.K. (1062) 83)

Oocyte; Sodium ion/glucose cotransporter; Expression; Flux; Voltage clamp; (*Xenopus laevis*) (Weber, W.-M. (1063) 73)

Insulin; Sodium ion/glucose cotransporter; Streptozotocin-induced diabetes; Phlorizin binding; Brush-border membrane vesicle; (Rat small intestine) (Fujii, Y. (1063) 90)

Kinetics; Network thermodynamic computer simulation; (Human erythrocyte) (May, J.M. (1064) 1)

Isoelectric focusing; Isoelectric point; Membrane protein; Sialic acid; Two dimensional electrophoresis; (Human erythrocyte) (Englund, A.-K. (1065) 185)

Transport kinetics; Glycosylation; (Human erythrocyte) (Feugeas, J.-P. (1066) 59)

Brush-border membrane; Stabilization; Aspartic acid transport; Jejunal vesicle; (Rabbit); (Rat) (Maenz, D.D. (1069) 250)

Sodium ion/D-glucose cotransport; Ethanol; Brush-border membrane vesicle; Sodium ion–proton exchange; Sodium ion transport; (Rabbit kidney) (Parenti, P. (1070) 92)

Halobacterium; Membrane energization (Tawara, E. (1070) 293)

Glucose-6-phosphatase; Glycogen storage disease; Phosphate transport (Burchell, A. (1092) 129)

Catecholamine; Calcium ion; Insulin; GLUT-4; (Rat heart) (Rattigan, S. (1094) 217)

Thyroid hormone, T_3; GLUT-1; GLUT-1 mRNA; Cytochalasin B; Clone 9 cell (Kuruvilla, A.K. (1094) 300)

Glucose transporter
Absorption coefficient; High performance molecular-sieve chromatography; Low-angle laser light scattering; Laser light scattering; Octyl glucoside; Phospholipid; (Human erythrocyte) (Lundahl, P. (1067) 177)

Erythrocyte; Ubiquinone; Ubiquinone binding site; Amino acid sequence (Lowe, A.G. (1069) 223)

Blood-brain barrier; Brain microvessel endothelial cell; Hexose uptake; 3-*O*-Methyl-D-glucose; Insulin (Takakura, Y. (1070) 1)

Blood-brain barrier; Brain microvessel endothelial cell; Glucose uptake; Astroglial cell; Conditioned medium (Takakura, Y. (1070) 11)

Glycosylation; mRNA (Maher, F. (1089) 27)

Glucose uptake
Blood-brain barrier; Brain microvessel endothelial cell; Astroglial cell; Conditioned medium; Glucose transporter (Takakura, Y. (1070) 11)

D-Glucose
Proteoliposome; Concanavalin A; Permeability; Thermotropic properties (Francis, S.E. (1062) 117)

D-Glucose cotransport
Sodium ion/D-glucose cotransporter; Brush-border membrane; Polyclonal antibody; Immunological recognition; (Pig kidney) (Gérardi-Laffin, C. (1063) 21)

D-Glucose inhibition
Intestine; Brush-border membrane; *myo*-Inositol transport; Sodium dependence; (Rat) (Scalera, V. (1062) 187)

α-Glucosidase
Cyclodextrin glucanotransferase; Ascorbic acid 2-*O*-α-glucoside; Ascorbic acid; Oligosaccharide; Transglucosylation (Tanaka, M. (1078) 127)

β-Glucosidase
Enzyme purification; (Mushroom) (Sengupta, S. (1076) 215)

Glucosylceramide
Ceramide; Glucosylceramide glucosidase; Ceramide glucosyltransferase inhibition; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; L-Cycloserine; Sphingolipid hydrolase; Sphingosine biosynthesis inhibition; Kidney (Shukla, G.S. (1083) 101)

Glucosylceramide glucosidase
Ceramide; Glucosylceramide; Ceramide glucosyltransferase inhibition; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; L-Cycloserine; Sphingolipid hydrolase; Sphingosine biosynthesis inhibition; Kidney (Shukla, G.S. (1083) 101)

Glucosylceramide lipidosis
Glucocerebrosidase; Gaucher disease; Lysosomal hydrolase; Glycosphingolipidosis; Enzymic activity in situ (Van Weely, S. (1096) 301)

Glucuronidation
Cytotoxicity; Hepatotoxicity; Bile salt (Takikawa, H. (1091) 173)

GLUT-1
Glucose transport; Thyroid hormone, T_3; GLUT-1 mRNA; Cytochalasin B; Clone 9 cell (Kuruvilla, A.K. (1094) 300)

GLUT-1 mRNA
Glucose transport; Thyroid hormone, T_3; GLUT-1; Cytochalasin B; Clone 9 cell (Kuruvilla, A.K. (1094) 300)

GLUT-4
Catecholamine; Calcium ion; Glucose transport; Insulin; (Rat heart) (Rattigan, S. (1094) 217)

Glutamate cotransport
Oocyte; Sodium ion dependence; Voltage clamp; (*Xenopus*) (Steffgen, J. (1066) 14)

Glutamate dehydrogenase
NADPH; Kinetic mechanism; α-Ketoglutarate dehydrogenase complex (Srinivasan, R. (1073) 18)

Thermophile; Archaebacterium; (*S. solfataricus*) (Schinkinger, M.F. (1073) 142)

Enzyme evolution; Coenzyme specificity; Primary sequence; Sequence comparison (Lilley, K.S. (1080) 191)

Olivoponto-cerebellar atrophy; cDNA cloning; Amino acid sequence; Signal peptide; Gene expression; (Mouse) (Tzimagiorgis, G. (1089) 250)

Glutamate receptor
Glutathione; Feeding response; Kainate; α-Aminoadipate; (*Hydra*) (Bellis, S.L. (1061) 89)

Glutamate transport
Cotransport; Sodium dependence; Chloride dependence; Brush-border membrane vesicle; Hepatopancreas; (*Homarus americanus*) (Balon, L.M. (1067) 123)

L-Glutamine
Amino acid transport; L-Alanine; γ-Glutamyltranspeptidase; Acivicin; Exocrine pancreas; (Rat) (Sastre, J. (1065) 213)

Glutamine synthase
cDNA sequence; Liver; cDNA library; (Human) (Van den Hoff, M.J.B. (1090) 249)

Glutamine synthetase
Thermophilic protein; Unfolding; Guanidine-HCl; Refolding (Wedler, F.C. (1076) 161)

Spin label; Binding site; Catalytic site; (*E. coli*) (Ubom, G.A. (1077) 91)

Feedback regulation; (*Rsp. rubrum*) (Hammarström, A. (1080) 259)

Glutaminyl-tRNA synthetase
Aminoacyl-tRNA synthetase complex; Immunoprecipitation; (Human) (Schray, B. (1087) 226)

γ-Glutamyl carboxylase
γ-Carboxyglutamic acid; Posttranslational modification; Vitamin K (Soute, B.A.M. (1073) 434)

ε(γ-Glutamyl)lysine
Metastasis; Programmed cell death; Tumor progression (Knight, C.R.L. (1096) 312)

Cross-linked matrix; Insoluble polymer; (Human platelet) (Harsfalvi, J. (1073) 268)

γ-Glutamyltransferase
Seminal plasma; Enzyme multiplicity; Glutathione; (Human) (Abe, S. (1077) 259)

γ-Glutamyltranspeptidase
Amino acid transport; L-Alanine; L-Glutamine; Acivicin; Exocrine pancreas; (Rat) (Sastre, J. (1065) 213)

Hepoxilin A_3 conjugate; Glutathione *S*-transferase; Aorta; Contraction; Hypertension; (Blood vessel); (Rat) (Laneuville, O. (1084) 60)

Glutaraldehyde
ATPase, H^+/K^+-; Heterodimer; Cross-link; Glycoprotein; $C_{12}E_8$; Soluble enzyme; Wheat germ agglutinin; FITC (Hall, K. (1077) 173)

Glutathione
Glutamate receptor; Feeding response; Kainate; α-Aminoadipate; (*Hydra*) (Bellis, S.L. (1061) 89)

Cation transport; Diamide; Ionic strength; (Human erythrocyte) (Ihrig, I. (1069) 171)

Hepatic blood flow; Prostacyclin; Thromboxane; Diethyl maleate (Bottje, W. (1073) 168)

Glutathione-*S*-conjugate; Intestinal transport; Detoxication; (Rabbit) (Vincenzini, M.T. (1073) 571)

Glutathione transferase; Detoxification; Drug resistance; Urinary bladder (Singh, S.V. (1074) 363)

γ-Glutamyltransferase; Seminal plasma; Enzyme multiplicity; (Human) (Abe, S. (1077) 259)

Glutathione *S*-transferase; Pancreas; Fatty acid ethyl ester synthase (Singhal, S.S. (1079) 285)

Malic enzyme; Methionine; Buthionine sulfoximine (Ayala, A. (1084) 48)

Methylglyoxal; Gluconeogenesis; Drug oxidation; Hepatocyte (Kalapos, M.P. (1092) 284)

Rifamycin SV; Metal ion; Oxygen free radical; Cell viability; Carbohydrate metabolism; (Rat hepatocyte) (Sáez, G.T. (1092) 325)

Proteoglycan; Type II collagen; Type X collagen; Chick chondrocyte; Buthionine sulfoximine; (Chick chondrocyte) (Habuchi, O. (1093) 153)

Glutathione level
Hydrogen peroxide; Cystine transport; (Mouse peritoneal macrophage) (Bannai, S. (1092) 175)

Glutathione peroxidase
Aging; Sexual dimorphism; Catalase; Superoxide dismutase; Glutathione reductase (Rikans, L.E. (1074) 195)

Glutathione reductase
Nitrofuran; Flavoprotein redox reaction (Čénas, N.K. (1073) 195)

Aging; Sexual dimorphism; Catalase; Superoxide dismutase; Glutathione peroxidase (Rikans, L.E. (1074) 195)

Glutathione-*S*-conjugate
Glutathione; Intestinal transport; Detoxication; (Rabbit) (Vincenzini, M.T. (1073) 571)

Glutathione *S*-transferase
Age; Enzyme activity; Enzyme subunit; (Rat liver) (Carrillo, M.-C. (1077) 325)

Glutathione; Pancreas; Fatty acid ethyl ester synthase (Singhal, S.S. (1079) 285)

Hepoxilin A_3 conjugate; γ-Glutamyltranspeptidase; Aorta; Contraction; Hypertension; (Blood vessel); (Rat) (Laneuville, O. (1084) 60)

Nucleotide sequence; cDNA; Yeast; (*Issatchenkia orientalis*) (Tamaki, H. (1089) 276)

Nucleotide sequence; (Chicken liver) (Liu, L.-F. (1090) 343)

Human colon; Glyoxylase I (Clapper, M.L. (1096) 209)

Glutathione transferase
Antipeptide antibody; Tumor marker (Evangelista, M. (1074) 214)

Glutathione; Detoxification; Drug resistance; Urinary bladder (Singh, S.V. (1074) 363)

Enzyme characterization; Bacterium; (*S. marcescens*) (Di Ilio, C. (1077) 141)

Glutethimide
δ-Aminolevulinate synthase; Heme oxygenase; Iron (Cable, E.E. (1080) 245)

Glycated polylysine-iron complex
LDL; Lipid peroxidation; Endocytosis; Macrophage; Antioxidant (Sakurai, T. (1086) 273)

Glycation
Collagen; Intervertebral disc; Aging; Human (Hormel, S.E. (1078) 243)

Glyceraldehyde
Autoxidation; ATPase; Monosaccharide; Oxidation; (Red blood cell) (Mira, M.L. (1060) 257)

Islets of Langerhans; Protein kinase C; Phorbol ester; Translocation; Insulin secretion (Persaud, S.J. (1095) 183)

Glyceraldehyde-3-phosphate dehydrogenase
Active site modification; Koningic acid; (Rabbit muscle) (Sakai, K. (1077) 192)

Glyceralde-3-phosphate dehydrogenase
Amino acid modification; Enzyme conformation; Active site; Arginine modification; Thiol group; (Rabbit muscle) (Kuzminskaya, E.V. (1075) 123)

Glycerol
Phosphatidylethanolamine; Cryoprotectant; Phase behavior; Phase diagram (Williams, W.P. (1062) 123)

Liposome; Osmotic stress; Surface potential; Permeability; Merocyanine 540 (Biondi, A.C. (1069) 5)

Glycerol dehydrogenase
Metalloenzyme; Cysteine; Amino acid sequence (Spencer, P. (1073) 386)

Glycerol monooleate
Model membrane; Membrane potential; Cable equation; Gramicidin; Silicon; Micromechanics (Fromherz, P. (1062) 103)

***sn*-Glycero-3-phosphate**
Choline transfer reaction; Duchenne muscular dystrophy; (Rat liver sub-cellular fraction) (Thompson, W. (1083) 207)

Glycero-3-phosphocoline
Phospholipid synthesis; TLC; (Rat liver mitochondria); (Rat lung mitochondria) (Veldhuizen, R.A.W. (1083) 211)

Glycerophospholipid
Lung surfactant; Phospholipid; Diether phosphonolipid; Analog; Synthesis; Preparative HPLC; Surface activity; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

Glycerophosphorylcholine
NMR, ^{1}H-; Liver development; Betaine; Taurine; Phosphocholine (Rafter, J.E.M. (1074) 263)

Glyceryl trinitrate
Nitrite; Nitrate; Nitric oxide; Bioconversion; (*P. chrysosporium*) (Servent, D. (1074) 320)

Glycinate ester
Papain; QSAR; *N*-Benzoylglycine ester; Enzymic hydrolysis; SAR (Compadre, C.M. (1079) 43)

Glycine betaine
Periplasmic binding protein; Salt stress; (*R. meliloti*) (Le Rudulier, D. (1061) 197)

Glycine receptor
Channel protein; Ion channel; (Rat) (Langosch, D. (1063) 36)

Glycine transport
Plasma membrane; Proteoliposome; Cysteine residue; (Rat brain) (Alcántara, R. (1067) 64)

Glycoasparaginase
Aspartylglycosaminuria; (Human urine) (Kaartinen, V. (1097) 28)

Glycogen
Fatty acid; Glycolysis; Smooth muscle; NMR, ^{31}P-; Muscle contraction; (Pig) (Barron, J.T. (1093) 125)

Glycogen metabolism
cyclic AMP; Protein kinase; Fatty acid synthesis; Cholesterol synthesis (Cohen, P. (1094) 292)

NMR, ^{13}C- (Künnecke, B. (1095) 103)

Glycogenolytic enzyme
Gene expression; Lung maturation; (Rabbit) (Newgard, C.B. (1090) 333)

Glycogen phosphorylase
Calmodulin (Takrama, J.F. (1077) 371)

Glycogen storage disease
Glucose-6-phosphatase; Glucose transport; Phosphate transport (Burchell, A. (1092) 129)

Glycogen synthase
Glucose-6-phosphate; Protein phosphatase (Villar-Palasi, C. (1095) 261)

Glycohydrolase
Influenza virus; Sialidase; Calcium activation (Chong, A.K.J. (1077) 65)

Glycolipid anchor
Aminoacylase; Renal dipeptidase; Ectoenzyme; Glycosylphosphatidylinositol; (Pig kidney) (Greenhough, K.J. (1076) 364)

***N*-Glycolylneuraminic acid**
Ganglioside; (Bovine brain) (Nakao, T. (1086) 305)

Glycolysis
Lymphocyte; Phorbol ester; Concanavalin A; Cell cycle (Marjanovic, S. (1087) 1)

Fructose 2,6-bisphosphate; Glucocorticoid; (Thymocyte) (Moreno-Aurioles, V.R. (1091) 96)

Fatty acid; Glycogen; Smooth muscle; NMR, ^{31}P-; Muscle contraction; (Pig) (Barron, J.T. (1093) 125)

Fructose 2,6-bisphosphate; Insulin; Glucose; (Human hepatocyte) (López, M.P. (1094) 200)

Glycolytic enzyme
Hexokinase activity; Ubiquitin; ATP (Murakami, K. (1080) 83)

Glycophorin
Variant; cDNA sequence; Sialoglycoprotein (Barton, P. (1090) 265)

Glycoprotein
Plasma membrane; Yeast; ATPase; Membrane domain; Immunogold electron microscopy (Serrano, R. (1062) 157)

α-Fucosidase; Lysosomal enzyme; Subcellular distribution; (Human skin fibroblast) (Johnson, K.F. (1073) 120)

Keratin; Hair; Cell membrane complex (Allen, A.K. (1074) 331)

Oligosaccharide; Characterization; (*D. melanogaster*) (Williams, P.J. (1075) 146)

ATPase, H^+/K^+-; Heterodimer; Cross-link; $C_{12}E_8$; Glutaraldehyde; Soluble enzyme; Wheat germ agglutinin; FITC (Hall, K. (1077) 173)

Phosphatidylinositol specific phospholipase C; GPIb; Platelet membrane; Phospholipase C; (Human) (Dhar, A. (1091) 15)

Cardiac sarcolemma; Calcium ion binding; Antigen; Dihydropyridine receptor (Tuana, B.S. (1091) 236)

Glycoprotein H
BHV-1; Infectious bovine rhinotracheitis virus (Meyer, A.L. (1090) 267)

Glycoprotein IIb-IIIa complex
Antiplatelet peptide; Fibrinogen receptor antagonist; Interaction (Huang, T.-F. (1074) 144)

Glycoprotein, 53 kDa
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Cooperativity (Kutchai, H. (1064) 49)

ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Saturation transfer EPR; EPR (Mahaney, J.E. (1064) 55)

Chemical crosslinking; Monoclonal antibody; Sarcoplasmic reticulum; Calsequestrin; ATPase, $(Ca^{2+} + Mg^{2+})$- (Burgess, A.J. (1064) 139)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum; Calcium ion transport (Grimes, E.A. (1064) 335)

Glycoprotein variant
Structure determination; Serum albumin; (Human); (Albumin Casebrook) (Peach, R.J. (1097) 49)

Glycosaminoglycan
Proteoglycan; LDL modification; Apolipoprotein B polar region; Proteolysis; Thermal stability (Camejo, G. (1096) 253)

Glycoside hydrolase
Detergent; Bile salt; Glycosphingolipid; (bacteria) (Falk, P. (1084) 139)

Glycosphingolipid
Detergent; Bile salt; Glycoside hydrolase; (bacteria) (Falk, P. (1084) 139)

Cestode lipid; Sphingomyelin; HPLC; FABMS (Nishimura, K. (1086) 141)

Glycosphingolipidosis
Glucocerebrosidase; Gaucher disease; Glucosylceramide lipidosis; Lysosomal hydrolase; Enzymic activity in situ (Van Weely, S. (1096) 301)

Glycosylation
Sodium ion/glucose cotransporter; Expression; Site-directed mutagenesis (Hediger, M.A. (1064) 360)

Glucose transport; Transport kinetics; (Human erythrocyte) (Feugeas, J.-P. (1066) 59)

P-glycoprotein; Multidrug resistance; (KB cell); (Human tissue) (Ichikawa, M. (1073) 309)

5′-Nucleotidase; Pancreatic adenocarcinoma; Subcellular localization; (Human) (Flocke, K. (1076) 273)

Hepatic lipase; Enzyme activity; Immunoinhibition; Synthesis; Maturation; (Rat hepatocyte) (Verhoeven, A.J.M. (1086) 49)

Glucose transporter; mRNA (Maher, F. (1089) 27)

Rhodopsin; Site-specific mutagenesis; Baculovirus; Expression vector (Jansen, J.J.M. (1089) 68)

Interferon ω1; Gene sequence; Interferon ω1, recombinant; Signal peptide; Recombinant CHO cell; (Human) (Adolf, G.R. (1089) 167)

(Pro)phospholipase A_2; Secretion; KEX2 proteinase; (Baker's yeast) (Bekkers, A.C.A.P.A. (1089) 345)

Glycosylation site
Prolactin; Amino acid sequence; Secondary structure; (Dromedary) (Martinat, N. (1077) 339)

Glycosylphosphatidylinositol
Glycosylphosphatidylinositol-specific phospholipase C; Phosphatidylinositol specific phospholipase C; Acetylcholinesterase; (*Cytophaga* sp.) (Jäger, K. (1074) 45)

Aminoacylase; Renal dipeptidase; Ectoenzyme; Glycolipid anchor; (Pig kidney) (Greenhough, K.J. (1076) 364)

Glycosylphosphatidylinositol anchor
Coagulating gland; Transglutaminase; GTP affinity; (Rat) (Seitz, J. (1078) 139)

Glycosylphosphatidylinositol-specific phospholipase C
Glycosylphosphatidylinositol; Phosphatidylinositol specific phospholipase C; Acetylcholinesterase; (*Cytophaga* sp.) (Jäger, K. (1074) 45)

Glycosylphosphatidylinositol-specific phospholipase D
Alkaline phosphatase; Alkaline phosphatase isoform (Raymond, F. (1074) 217)

Glycosyltransferase
Medulloblastoma; Xenograft; Ganglioside; Sphingolipid (Gottfries, J. (1081) 253)

Proliferation (Masibay, A.S. (1090) 230)

Glycyrrhetinic acid
Binding protein; (Rat liver) (Negishi, M. (1066) 77)

11β-Hydroxysteroid dehydrogenase; Corticosteroid metabolism; 11-Dehydrocorticosterone; Enzyme inhibitor; (Rat kidney) (Bühler, H. (1075) 206)

Glyoxylase I
Human colon; Glutathione *S*-transferase (Clapper, M.L. (1096) 209)

GM2
Ganglioside; Transformation; SV40 (Hoffman, L.M. (1084) 94)

2′-GMP
Ribonuclease F_1; Ribonuclease T_1; Raman spectroscopy; Enzyme structure; Nucleotide conformation (Takeuchi, H. (1078) 307)

cyclic GMP
Antiidiotypic antibody; Antibody; Polyclonal antibody (Filatova, E.A. (1064) 293)

Nitroprusside; Ion channel; Patch clamp; Renal cell (Marunaka, Y. (1070) 152)

Calcium; Guanylate cyclase; Atrial natriuretic factor; ATP (Chang, C.-H. (1093) 42)

Protein kinase C; Aggregation; Secretion; Protein phosphorylation; (Human platelet) (Doni, M.G. (1094) 323)

Gold-thioglucose
Obesity; Insulin sensitivity; Brown adipose tissue; Lipogenesis; Liver; White adipose (Blair, S.C. (1085) 385)

Gout
Hypoxanthine-guanine phosphoribosyltransferase; Lesch-Nyhan; Recombinant enzyme; Gene expression; Human erythrocyte (Free, M.L. (1087) 205)

GPC, 1-alkyl-2-arachidonoyl
PAF; Prostaglandin; Arachidonic acid; Estradiol; (Oophorectomized rat uterus) (Nakayama, R. (1085) 235)

GPIb
Phosphatidylinositol specific phospholipase C; Glycoprotein; Platelet membrane; Phospholipase C; (Human) (Dhar, A. (1091) 15)

GPIbα protein
Platelet-type von Willebrand disease; Platelet aggregation; Peptide segment; Von Willebrand factor; Conformational energy; Amphipathic structure (Pincus, M.R. (1097) 133)

GP IIb–IIIa
Platelet; Concanavalin A receptor; G protein; Signal transduction (Torti, M. (1070) 20)

Gpp[NH]p
Sodium ion efflux; Aluminum; GTP; 5′-Guanylyl imidodiphosphate; (Barnacle muscle) (Huang, Y.-P. (1062) 255)

G protein
Platelet; Concanavalin A receptor; GP IIb–IIIa; Signal transduction (Torti, M. (1070) 20)

CDC25 gene; cyclic AMP; Cell cycle; Growth control (Frascotti, G. (1089) 206)

Rhabdovirus; Viral hemorrhagic scepticaemia virus; Egtved virus; (Fish) (Thiry, M. (1090) 345)

Parotid; GTPase; β-Adrenoreceptor; Adenylyl cyclase; Signal transduction; Cholera toxin (Hiramatsu, Y. (1092) 391)

Bombesin; GTPase; (Mouse fibroblast) (Morello, L. (1092) 397)

Alpha subunit; Signal transduction; Expression; Development; (Mammalian cell and tissue) (Garibay, J.L.R. (1094) 193)

1,25-Dihydroxyvitamin D-3; Skeletal muscle; Calcium uptake; Fluoride (De Boland, A.R. (1094) 238)

Adrenergic receptor; Catecholamine (Lomasney, J.W. (1095) 127)

Adenylate cyclase; Diabetes; Protein expression; (Rat membrane) (Strassheim, D. (1096) 121)

Adenylate cyclase; Diabetes; Protein expression; (Rat membrane) (Livingstone, C. (1096) 127)

ADP-ribosylation; Diabetes (Palmer, T.M. (1097) 193)

Gradient gel electrophoresis
Lecithin-cholesterol acyltransferase; Apolipoprotein; Cross-linking; Cholesterol; Cholesteryl ester (Bonomo, E.A. (1082) 265)

Gramicidin
Model membrane; Membrane potential; Cable equation; Glycerol monooleate; Silicon; Micromechanics (Fromherz, P. (1062) 103)

Gramicidin A
Ion channel; Photomodulation; Ion transport (Stankovic, C.J. (1061) 163)

FTIR; Membrane dynamics; Flexibility gradient; Cholesterol; Cytochrome *c* (Castresana, J. (1065) 29)

Ion channel; Lipid membrane; Radiation inactivation; Vitamin E (Barth, C. (1066) 54)

Acylgramicidin; Acylprotein; DMPC; Monolayer; NMR; CD; HPLC (Vogt, T.C.B. (1069) 157)

Gramicidin conformation
Phosphatidylcholine; Bilayer; NMR, ^{2}H-; CD (Morrow, M.R. (1070) 209)

Granular membrane
Phospholipase A_2; Secretory granule; Arachidonic acid; (Rat parotid gland) (Mizuno, M. (1084) 21)

Granulocyte colony stimulation factor
c-*myb*; Differentiation; Myelomonocyte; Maturation (Yanagisawa, H. (1088) 380)

Graph-theoretic analysis
Metabolic regulation; Theoretical model; Flux control coefficient (Sen, A.K. (1059) 293)

Green photosynthetic bacterium
Amino acid sequence; Light harvesting complex (Højrup, P. (1077) 220)

GroEL related protein
Antigen, 65 kDa; Molecular chaperone; Autoimmunity; (Chinese hamster ovary) (Ahmad, S. (1087) 253)

Heat shock protein; cDNA sequence; Chaperonin protein; Autoimmunity; (Mouse) (Venner, T.J. (1087) 336)

Group additivity
Polyol; Partial molar volume; Van der Waals radius; Hydrophilic channel; Single file transport (Kiyosawa, K. (1064) 251)

Growth
Coenzyme Q homolog; Rabbit liver; Intracellular distribution (Matsura, T. (1083) 277)

Growth control
CDC25 gene; cyclic AMP; G-protein; Cell cycle (Frascotti, G. (1089) 206)

Growth factor
mRNA; Heparin; Lipoprotein lipase; (Rat mesenchymal heart cell) (Friedman, G. (1082) 27)

TGF-β; Procollagen; Collagen; Fibroblast; Collagen synthesis; Collagen degradation (McAnulty, R.J. (1091) 231)

Heparin; Dithiothreitol; Plasma; (Liver) (Nagasaki, T. (1094) 330)

Hepatocyte; DNA synthesis; Conditioned medium; Secretion (Skouteris, G.G. (1095) 169)

Growth hormone
Amino acid sequence; (*R. catesbeiana*) (Kobayashi, T. (1078) 383)

Genomic sequence; Intron; Exon; (Carp); (*C. carpio*) (Chiou, C.-S. (1087) 91)

cDNA cloning; Non-coding region; Molecular evolution (Yamakawa, M. (1087) 247)

Bone protein synthesis; Somatomedin (Martínez, J.A. (1093) 111)

Growth hormone gene
Fish; (Grass carp) (Ho, W.K.K. (1090) 245)

Growth hormone-releasing factor
Fluctuation; Rotation; Fluorescence depolarization; Phospholipid (Honda, S. (1068) 81)

Growth inhibition
Malaria; Tryptophan-*N*-formylated gramicidin; Erythrocyte membrane; Phospholipid; Potassium ion leakage; (*P. falciparum*) (Moll, G.N. (1062) 206)

Phosphorylation; Vitreous humor; Iris-ciliary complex; Tissue culture (Banerjee, A. (1077) 56)

Growth regulation
Differentiation; Myeloid leukemia cell; Pyrimidine nucleoside; Staurosporin; (HL-60 cell) (Makishima, M. (1094) 1)

λGT11 expression vector
Fusion protein; Apolipoprotein E; LDL(B/E) receptor; Fibroblast (Ribeiro, A. (1087) 219)

GTP
Sodium ion efflux; Aluminum; Gpp[NH]p; 5′-Guanylyl imidodiphosphate; (Barnacle muscle) (Huang, Y.-P. (1062) 255)

Rough endoplasmic reticulum; Polyunsaturated free fatty acid; Membrane fusion; CTP; NADPH; Indomethacin (Lavoie, C. (1070) 274)

GTP affinity
Coagulating gland; Transglutaminase; Glycosylphosphatidylinositol anchor; (Rat) (Seitz, J. (1078) 139)

GTP binding
Protein synthesis; Eukaryotic initiation factor; Affinity labelling; Sequence analysis (Bommer, U.-A. (1079) 308)

GTP-binding protein
Nucleoside diphosphate kinase; Thiophosphorylation; (Spinach leaf) (Nomura, T. (1077) 47)

ADP-ribosylation; Guanine nucleotide; Protein, 20 kDa; Aging; (Rat testis) (Yamashita, A. (1091) 46)

Calcium channel; Second messenger; Regulation (Dolphin, A.C. (1091) 68)

Vesicular transport; Endoplasmic reticulum; *SAR1*; *(Saccharomyces cerevisiae)* (Nishikawa, S.-i. (1093) 135)

Bacterial protein; Pertussis toxin; (Mastocytoma P-815 cell) (Takahashi, S. (1093) 207)

Prostaglandin E_1 receptor; Mastocytoma P-815 cell; Adenylate cyclase; Desensitization; Signal transduction (Hashimoto, H. (1095) 140)

GTP binding-protein G_E
Exocytosis; ATP; Protein kinase C; Magnesium ion; (Mast cell) (Lillie, T.H.W. (1094) 355)

GTPase
ATPase, H^+-; (*N. crassa*) (Addison, R. (1065) 130)

Parotid; β-Adrenoreceptor; Adenylyl cyclase; G protein; Signal transduction; Cholera toxin (Hiramatsu, Y. (1092) 391)

Bombesin; G protein; (Mouse fibroblast) (Morello, L. (1092) 397)

Guanidine-HCl
Glutamine synthetase; Thermophilic protein; Unfolding; Refolding (Wedler, F.C. (1076) 161)

Guanine nucleotide
ADP-ribosyltransferase; De-ADP-ribosylation; (Pig brain cytosol); (*C. botulinum*) (Habermann, B. (1077) 253)

ADP-ribosylation; Protein, 20 kDa; Aging; GTP-binding protein; (Rat testis) (Yamashita, A. (1091) 46)

Phospholipase A_2; Phospholipase C; HL60; Inositol phosphate; *N*-Formylmethionylleucylphenylalanine (Nielson, C.P. (1095) 83)

Guanine nucleotide binding protein
Bradykinin; Arachidonate liberation; (Murine osteoblast) (Yanaga, F. (1094) 139)

Guanine O^6
DNA methylase; DNA binding; DNA recognition (Hepburn, P.A. (1088) 341)

Guanosine 2′-monophosphate
Temperature jump; Chemical relaxation; Association rate; Guanosine 3′-monophosphate (MacKerell Jr., A.D. (1073) 357)

Guanosine 3′-monophosphate
Temperature jump; Chemical relaxation; Association rate; Guanosine 2′-monophosphate (MacKerell Jr., A.D. (1073) 357)

Guanylate cyclase
Adenine nucleotide; Enzyme activation; (Rat lung) (Gazzano, H. (1077) 99)

Calcium; Atrial natriuretic factor; ATP; cyclic GMP (Chang, C.-H. (1093) 42)

5′-Guanylyl imidodiphosphate
Sodium ion efflux; Aluminum; GTP; Gpp[NH]p; (Barnacle muscle) (Huang, Y.-P. (1062) 255)

H

Hair
Keratin; Glycoprotein; Cell membrane complex (Allen, A.K. (1074) 331)

Hairpin structure
Replication origin; Phage G4 DNA (Hirao, I. (1087) 199)

Hakata antigen
Human plasma protein; Thermolabile protein; Systemic lupus erythematosus (Yae, Y. (1078) 369)

Halide
Cytochrome *c* oxidase; Ligand binding; Electron paramagnetic resonance; Cyanide; Formate; (Bovine heart) (Moody, A.J. (1059) 189)

EPR; Myeloperoxidase; Cyanide complex; Enzyme catalysis (Lee, H.C. (1076) 317)

Halobacterium
Glucose transport; Membrane energization (Tawara, E. (1070) 293)

Halogenated 1,4-benzoquinone
EPR; Photosystem II; Iron-quinone; Reaction center; Semiquinone; (Plant) (Hallahan, B.J. (1059) 181)

Halogenobenzimidazole
Casein kinase; Inhibitor; Halogenobenzotriazole; Naphthalene; Isoquinoline; (Maize seedling); (Plant) (Dobrowolska, G. (1080) 221)

Halogenobenzotriazole
Casein kinase; Inhibitor; Halogenobenzimidazole; Naphthalene; Isoquinoline; (Maize seedling); (Plant) (Dobrowolska, G. (1080) 221)

Halogenomethane metabolism
Cytochrome *c* heme peptide; Heme peptide modification; NADPH-cytochrome *P*-450 reductase (Masuda, Y. (1075) 131)

Halomethyldihydrocoumarin
Elastase; Suicide substrate; Bis(4-acyloxyphenyl)methane (Vilain, A.-C. (1076) 401)

Halophile
Copper protein nitrite reductase; Nitrate reductase; EPR (Denariaz, G. (1056) 225)

Halophilic bacterium
Total lipid; Phosphatidylethanolamine; Phosphatidylglycerol; Sodium chloride; Hexagonal H_{II} phase (Sutton, G.C. (1061) 235)

Halothane
Calcium ion release; Caffeine; Malignant hyperthermia; Sarcoplasmic reticulum (Carrier, L. (1064) 175)

Sarcoplasmic reticulum; Calcium ion transport; Excitation–contraction coupling; Hydrocarbon (Ritov, V.B. (1067) 187)

Hammett plot
Aldehyde reductase; Enzyme kinetics; Transition state; (Human kidney) (Bhatnagar, A. (1077) 180)

Harmaline effect
Cation effect; Amino acid transport; System y^+; (Human erythrocyte); (Hagfish erythrocyte) (Young, J.D. (1070) 111)

Harmonic force field
Polypeptide; Conformer state; Model size (Balázs, A. (1077) 127)

HBGF-1
Heparin-binding growth factor-1; Acidic fibroblast growth factor; aFGF; Gene expression (Sullivan, D.E. (1090) 17)

HDL
Phospholipase; Cholesterol; Bile acid; (Rat hepatocyte) (Collet, X. (1081) 211)

Lipid emulsion; Transfer protein; Cholesteryl ester; Phosphatidylcholine; Retinyl ester; (Rat); (Rabbit) (Martins, I.J. (1081) 328)

Chemical modification; Scavenger receptor; Lysosomal degradation (Miyazaki, A. (1082) 143)

Triacylglycerol lipase; Phospholipid; Triacylglycerol; (Rat liver) (Marques-Vidal, P. (1082) 185)

Endocytosis; Internalization; Non-lysosomal compartment; Resecretion; Fluorescein; pH probe (Rahim, A.T.M.A. (1082) 195)

Cholesteryl ester transfer protein; Non-esterified fatty acid; (Human) (Lagrost, L. (1082) 204)

Steroid hormone; Lipoprotein; Androstenediol; Dehydroepiandrosterone; Dihydrotesterone; Estradiol; Pregnenolone; Progesterone (Leszczynski, D.E. (1083) 18)

Apolipoprotein E; Apo E isoform; Apolipoprotein A-II; VLDL; Lipoprotein metabolism (Borghini, I. (1083) 139)

Apolipoprotein A-I; Diet; Saturated fat; (Rabbit) (Carlson, T.L. (1083) 221)

Lecithin-cholesterol acetyltransferase; HDL metabolism; Plasma lipoprotein (Jonas, A. (1084) 205)

Fibroblast; Cholesterol; Phospholipid; Efflux (Bielicki, J.K. (1085) 7)

Non-esterified fatty acid; Cholesteryl ester; LDL; Cholesteryl ester transfer protein (Lagrost, L. (1085) 209)

Cholesterol transport; Reverse cholesterol transport; Surface transfer; Plasma membrane (Johnson, W.J. (1085) 273)

Cholesterol; Hydroxymethylglutaryl-CoA reductase; Acyl-CoA:cholesteryl acyltransferase; LDL; Cell growth; (Rat intestine); (IEC-6 cell) (Reimann, F.M. (1085) 315)

LDL; UVB radiation; Tryptophan photolysis; Lipid photoperoxidation; Metal ion (Salmon, S. (1086) 1)

Reverse cholesterol transport; Cholesterol transport; Apolipoprotein A-I; Apolipoprotein A-II; (Mouse macrophage) (Von Hodenberg, E. (1086) 173)

Receptor; Retroendocytosis; Cholesterol; IEC-6; (Rat intestinal crypt cell) (Rogler, G. (1095) 30)

HDL metabolism
Lecithin-cholesterol acetyltransferase; HDL; Plasma lipoprotein (Jonas, A. (1084) 205)

HDL receptor
LDL; Cholesterol efflux; (Human cell line EAhy 926) (Bernini, F. (1083) 94)

HDL subclass
Reconstituted HDL; LDL; Spontaneous phospholipid transfer; Non-denaturing gradient gel electrophoresis (Jonas, A. (1085) 71)

HDL subfraction
Cholesterol uptake; Corticosteroid synthesis; (Rat adrenal cell) (Hammami, M. (1094) 153)

Heart
AMP-deaminase; Diabetes mellitus (Jenkins, R.L. (1077) 379)

Endothelin; Receptor; Aorta; Kidney; Cross-linking; (Bovine) (Bednar, D.L. (1092) 226)

Heart hypertrophy
Thyroxine; Cardiomyocyte; Mitochondrion; ATP synthase; (Rat) (Das, A.M. (1096) 284)

Heart muscle
Sarcoplasmic reticulum; Calcium pump; Fluoride effect (Narayanan, N. (1070) 83)

Heat-labile toxin
Intestinal brush border; Binding site; Galactoprotein; Development; (*E. coli*) (Griffiths, S.L. (1075) 154)

Heat shock
Hsp68; Ischemia; In vitro system (Tuijl, M.J.M. (1091) 278)

Heat shock promoter
Principal σ factor gene; Nucleotide sequence; (*Pseudomonas aeruginosa*) (Tanaka, K. (1089) 113)

Heat shock protein
cDNA sequence; Chaperonin protein; Autoimmunity; GroEL related protein; (Mouse) (Venner, T.J. (1087) 336)

Glucocorticoid receptor; DNA binding; Chromatin binding; Negative regulation; Transcriptional synergism (Muller, M. (1088) 171)

Heat stability
P700; Photosystem I; Chlorophyll *a*; (*S. elongatus*); (Spinach) (Ikegami, I. (1059) 275)

Heavy atom
Ribosome; Undecagoldcluster (Boeckh, T. (1075) 50)

Heavy metal
Developmental variation; Metallothionein mRNA; (Mouse) (Mercer, J.F.B. (1097) 205)

HeLa cell
Isotonic; Potassium ion transport; Chloride transport; Regulatory volume decrease; Calcium ion (Ikehara, T. (1068) 87)

Helical peptide
Tetraether lipid; Lipid phase transition; Differential thermal analysis (Blöcher, D. (1065) 160)

4-α-helical
Cytochrome *c'*; Bacterioferritin; Hemoferritin; Ferritin (Moore, G.R. (1058) 38)

Helicity
Histone H1; C-domain; Composition; Residue spacing; Conservation; Sequence analysis (Maeder, D.L. (1076) 233)

Helix–lipid association
Hydrophobic helix; Bundle (Wang, J. (1070) 493)

Helix perturbation
DNA modification; Carcinogen–DNA interaction (Fronza, G. (1087) 330)

Helodermin
Adenylate cyclase; Pituitary; Vasoactive intestinal peptide analog; Peptide receptor; PACAP analog; (Human SUP-T1 lymphoblast) (Gourlet, P. (1066) 245)

Hemagglutinin
Influenza virus hemagglutinin; Fusion peptide; Lipid monolayer; Surface activity; Membrane fusion (Burger, K.N.J. (1065) 121)

Hematopoiesis
Membrane protein; Phosphorylation site; Chromosomal translocation (Hromas, R. (1090) 241)

Hematoporphyrin
Porphyrin–liposome interaction; Protoporphyrin; Liposome; Membrane; Fluorescence polarization; Fluorescence quenching (Ricchelli, F. (1065) 42)

Ascorbate; Blood cell membrane; Photosensitization; Quercetin; α-Tocopherol (Jan, C.-Y. (1086) 7)

Heme
Cytochrome b_6f; Resonance Raman; Photoreduction; Cytochrome *f* (Hobbs, J.D. (1059) 37)

Peroxidase; Ligninase; Cytochrome *c* peroxidase; Active site; Evolution; Structure prediction (Welinder, K.G. (1080) 215)

Cyclooxygenase; Peroxidase; Nonsteroidal anti-inflammatory drug; Aspirin; Co-oxidation (Smith, W.L. (1083) 1)

Heme catabolism
Biliverdin reductase; Protein antigenicity; Thiol-disulfide regulation; Oxidative stress; (Rat liver) (Frydman, J. (1076) 321)

Heme / copper oxidase
Copper/heme oxidase; Cytochrome *c*; (*E. coli*) (Gennis, R.B. (1058) 21)

Heme–heme interaction
Cytochrome *c* peroxidase; Two-fragment complex; Enzyme mechanism; (*P. aeruginosa*) (Ellfolk, N. (1080) 68)

Heme metabolism
Iron transport; Fanconi syndrome; Tyrosinemia; Succinylacetone; (Rat renal tubule) (Wyss, P.A. (1070) 300)

Heme oxygenase
Cobalt; Protoporphyrin; Induction (Smith, T.J. (1073) 221)

Retinoic acid; Thyroid hormone (Smith, T.J. (1075) 119)

δ-Aminolevulinate synthase; Glutethimide; Iron (Cable, E.E. (1080) 245)

Heme synthesis; Erythroleukemia cell; δ-Aminolevulinate synthase; Sequential activation (Fujita, H. (1090) 311)

Heme peptide modification
Cytochrome *c* heme peptide; Halogenomethane metabolism; NADPH-cytochrome *P*-450 reductase (Masuda, Y. (1075) 131)

Heme protein
Cytochrome *c*; Protein sequence (Kamen, M.D. (1058) 3)

Cyanide binding; Cytochrome *c'*; Subunit dissociation (Motie, M. (1076) 97)

Heme protein bleaching
Lipoxygenase; Hemin bleaching; Pigment cooxidation (Macías, P. (1082) 310)

Heme release
Protein dynamics; Polypeptide–water interaction (Paul, J. (1079) 330)

Heme structure
Cytochrome *c*-554; Resonance Raman; (*C. aurantiacus*) (Heibel, G. (1060) 196)

Heme synthesis
Erythroleukemia cell; δ-Aminolevulinate synthase; Heme oxygenase; Sequential activation (Fujita, H. (1090) 311)

Hemicholinium-3
High affinity transport; Choline; Monoclonal antibody; Purification; Synaptic plasma membrane (Knipper, M. (1065) 107)

Hemichrome
Hemoglobin; Ferric heme ligand; (Mollusc) (Spagnuolo, C. (1074) 270)

Hemi-fusion
Electrofusion; Dielectrophoresis; Erythrocyte (Song, L. (1065) 54)

Hemin
Hemolysis; Cytoskeletal protein; Erythrocyte (Solar, I. (1062) 51)

Hemin bleaching
Lipoxygenase; Heme protein bleaching; Pigment cooxidation (Macías, P. (1082) 310)

Hemin induction
Erythroid differentiation; Poly(ADP-ribose) synthetase; Gene regulation; (Human leukemia cell) (Tomoda, T. (1088) 359)

Hemocyanin
Cation stabilization; Light scattering; Molecular weight; Subunit dissociation; Ionic stabilization; Subunit contact; (*Y. limulata*) (Herskovits, T.T. (1076) 71)

Hemodialysis
Aluminum; Gallium; (Lymphocyte) (McGregor, S.J. (1095) 196)

Hemoferritin
Cytochrome *c'*; Bacterioferritin; Ferritin; 4-α-helical (Moore, G.R. (1058) 38)

Hemoglobin
Potassium/chloride cotransport; Oxygenation; Physiological role; (Trout red cell) (Borgese, F. (1066) 252)

Nitroxide metabolism; Red blood cell; Doxyl stearic acid; Free radical; Hypoxia (Minetti, M. (1074) 112)

Hemichrome; Ferric heme ligand; (Mollusc) (Spagnuolo, C. (1074) 270)

Amino acid sequence; (Reindeer) (Petruzzelli, R. (1076) 221)

Earthworm hemoglobin; Fluorescence; Front-face fluorometry; Subunit dissociation (Harrington, J.P. (1076) 351)

Antarctica; Cold-adapted teleost; Primary structure; Oxygen binding (Caruso, C. (1078) 273)

Sickle hemoglobin; Polymerization; Porphyrin; Modification of protein; Oxygen carrier (Adachi, K. (1079) 268)

Ferrous nitrosylhemoglobin; XANES spectroscopy; (*Camelus dromedarius*); (Dromedary) (Congiu Castellano, A. (1080) 119)

Oxidative stress; Erythrocyte; Hemolysis; Hydrogen peroxide; (Mouse) (Kruckeberg, W.C. (1094) 288)

Hemoglobin Calais
Human hemoglobin variant; Beta-chain; Oxygen affinity; HPLC, RP- (Wajcman, H. (1096) 60)

Hemoglobin S
Polymerization; Light scattering; Sickle cell (Gross, C.T. (1079) 153)

Hemolysis
Ethanol; Red blood cell (Chi, L.-M. (1062) 46)

Hemin; Cytoskeletal protein; Erythrocyte (Solar, I. (1062) 51)

Erythrocyte; Iron deficiency; Thalassemia; Spherocytosis; pH effect; Band 3 protein (Sauer, A. (1063) 203)

Hemoglobin; Oxidative stress; Erythrocyte; Hydrogen peroxide; (Mouse) (Kruckeberg, W.C. (1094) 288)

Hemolytic anemia
ATP; Deoxyadenosine triphosphate; 2'-Deoxycoformycin; Lymphoproliferative malignancy (Nakashima, K. (1094) 257)

Hemoprotein
Ligand binding; Cytochrome *c'*; Subunit dissociation (Kassner, R.J. (1058) 8)

EPR; Resonance Raman; Nitridochromium(V)-porphyrin (Hori, H. (1077) 392)

Hemorrhagic factor II
Enzyme purification; Snake venom; (*L. muta muta*) (Sánchez, E.F. (1074) 347)

Henle's loop
Mathematical model; (Rabbit kidney) (Fernandes, P.L. (1064) 111)

Epithelial cell; TALH-SVE; NMR; Renal cell; (Kidney) (Von Recklinghausen, I.R. (1091) 179)

Heparin
High affinity heparin-LDL complex; Lipoprotein metabolism; Cholesteryl ester accumulation; (Mouse peritoneal macrophage) (Srinivasan, S.R. (1081) 188)

Growth factor; mRNA; Lipoprotein lipase; (Rat mesenchymal heart cell) (Friedman, G. (1082) 27)

Phospholipase A_2; Enzyme isoform; (Porcine pancreas) (Diccianni, M.B. (1082) 85)

Growth factor; Dithiothreitol; Plasma; (Liver) (Nagasaki, T. (1094) 330)

Heparin-binding
Platelet factor 4; NMR, ^{1}H-; Histidine assignment (Talpas, C.J. (1078) 208)

Heparin-binding growth factor-1
HBGF-1; Acidic fibroblast growth factor; aFGF; Gene expression (Sullivan, D.E. (1090) 17)

Epidermal growth factor; Primary culture; (Rat prostate) (Nishi, N. (1095) 268)

Heparin cofactor
Chemotaxis; Neutrophil; Actin polymerization; cyclic AMP (Hoffman, M. (1095) 78)

Hepatectomy
Carbonic anhydrase; Regeneration; (Rat liver) (Marín, J.J.G. (1061) 9)

Cytochrome *c* oxidase; Cell proliferation; (Rat T-lymphocyte) (Otero, A. (1092) 184)

Hepatic blood flow
Glutathione; Prostacyclin; Thromboxane; Diethyl maleate (Bottje, W. (1073) 168)

Hepatic cholesterol uptake
Reverse cholesterol transport; Lipid transfer protein; Lipoprotein; HepG2 cell (Francis, G.A. (1084) 159)

Hepatic circulation
Antiarrhythmic drug; Hepatic uptake; (Perfused rat liver) (Lenzen, R. (1074) 406)

Hepatic encephalopathy
NMR, ^{15}N-; Cerebral glutamine; Hyperammonemia; Portacaval shunt; (Rat brain) (Kanamori, K. (1096) 270)

Hepatic fatty acid synthesis
Hyperthyroidism; (Perfused rat liver) (Castellani, L.W. (1086) 197)

Hepatic lectin
Asialoglycoprotein receptor; cDNA sequence; Galactose-terminated glycoprotein (Sanford, J.P. (1087) 259)

Hepatic lipase
Arachidonic acid; Chylomicron; Docosahexaenoic acid; Icosapentanoic acid; Lipoprotein lipase (Melin, T. (1075) 259)

Steroid; Estradiol; (Rat hepatocyte) (Emmison, N. (1083) 147)

Apolipoprotein E; Activation; Mixed micelle; Phosphatidylcholine (Thuren, T. (1083) 217)

Enzyme activity; Immunoinhibition; Synthesis; Maturation; Glycosylation; (Rat hepatocyte) (Verhoeven, A.J.M. (1086) 49)

Lipase; Cholesterol diet; Cholesteryl ester transfer protein; (Rabbit) (Warren, R.J. (1086) 354)

Hepatic transport
Bilirubin photoisomer; Photobilirubin transport; (Isolated perfused rat liver) (Pellegrino, J.M. (1074) 25)

Hepatic triacylglycerol lipase
cDNA sequence; Combined lipase deficiency; (Mouse) (Oka, K. (1089) 13)

Hepatic uptake
Antiarrhythmic drug; Hepatic circulation; (Perfused rat liver) (Lenzen, R. (1074) 406)

Hepatitis B virus
HIV; Phospholipid prodrug; AZT; Dideoxycytidine; 3′-Deoxythymidine; Mitochondrion; Microsome (Van Wijk, G.M.T. (1086) 99)

Hepatocarcinogenesis
Cytochrome *P*-450; Tumor promotion; Phenobarbital; Development; (Rat) (Lechner, M.C. (1087) 157)

Hepatocyte
Mitochondrion; Fructose; 2-Phosphoglycerate; Atractyloside (Grivell, A.R. (1059) 45)

Transport; Cyclopeptide; Bile acid; (Rat liver) (Ziegler, K. (1061) 287)

Ornithine decarboxylase antizyme; Putrescine; Ornithine decarboxylase; (Decay in *X. laevis*) (Baby, T.G. (1092) 161)

Methylglyoxal; Gluconeogenesis; Drug oxidation; Glutathione (Kalapos, M.P. (1092) 284)

Iron uptake; Calcium; Transmembrane transport (Nilsen, T. (1095) 39)

DNA synthesis; Conditioned medium; Growth factor; Secretion (Skouteris, G.G. (1095) 169)

Insulin; Okadaic acid; Protein phosphatase (Agius, L. (1095) 243)

Hepatocyte primary culture
Probucol; Lipid secretion; Cholesterol; Phospholipid; Triacylglycerol (De La Vega, F.M. (1081) 293)

Hepatoma
α-Fetoprotein; Albumin; Polyunsaturated fatty acid; (Rat fetal hepatocyte) (Iturralde, M. (1086) 81)

Hepatomegaly
Fish oil; Cholesterol; Triacylglycerol synthesis; Glucose-6-phosphate dehydrogenase; Malic enzyme; Diacylglycerol acyltransferase; Insulin; (Rat liver) (Otto, D.A. (1082) 37)

Hepatopancreas
Glutamate transport; Cotransport; Sodium dependence; Chloride dependence; Brush-border membrane vesicle; (*Homarus americanus*) (Balon, L.M. (1067) 123)

Hepatotoxicity
Cytotoxicity; Bile salt; Glucuronidation (Takikawa, H. (1091) 173)

Hep G2
Chylomicron remnant; LDL; LDL receptor; Compactin; Mevalonolactone (Chen, Q. (1083) 173)

HepG2 cell
Reverse cholesterol transport; Lipid transfer protein; Hepatic cholesterol uptake; Lipoprotein (Francis, G.A. (1084) 159)

Cytokine; Fibrinogen; Cholesterol; (Human monocyte) (Lane, A. (1097) 161)

Hepoxilin A_3 conjugate
Glutathione *S*-transferase; γ-Glutamyltranspeptidase; Aorta; Contraction; Hypertension; (Blood vessel); (Rat) (Laneuville, O. (1084) 60)

Herbicide
Atrazine; Charge recombination; Unspecific binding; Photoaffinity labeling; Photosystem II concentration (Jursinic, P.A. (1059) 312)

Herbicide resistant mutant
Photosystem II; Oxygen-evolving system; (Cyanobacterium) (Kirilovsky, D. (1060) 37)

Hereditary cataract
Lens; MIP; Chimaera; Immunofluorescence; (Mouse) (Shiels, A. (1097) 318)

Hereditary cataract RFLP
Lens; MIP; MP70; (Mouse) (Shiels, A. (1097) 81)

Herpesvirus infection
Phosphorylation site; Protein kinase; Protein kinase A; Protein kinase C; Synthetic peptide (Leader, D.P. (1091) 426)

Heterodimer
ATP synthase, F_1-; Oligomeric structure (Harada, M. (1056) 279)

ATPase, H^+/K^+-; Cross-link; Glycoprotein; $C_{12}E_8$; Glutaraldehyde; Soluble enzyme; Wheat germ agglutinin; FITC (Hall, K. (1077) 173)

Heteroduplex
Direct repeat; Complementary palindrome; Somatic mutation; V-gene; Clonal selection (Rogozin, I.B. (1089) 175)

Heterogeneity
Aspartate aminotransferase; Molecular form; Oxidation; Storage; (Chicken liver) (Imperial, S. (1077) 72)

Heterogeneous mRNA
Insulin-like growth factor II (IGFII); Multiple leader exon; Transcription; (Mouse) (Ikejiri, K. (1089) 77)

Heterologous expression in *E. coli*
Reaction center protein; Gene cassette; Protein A fusion; Affinity chromatography; (*Rhodobacter sphaeroides*) (Söhlemann, P. (1089) 103)

HETES
Peroxisome; Beta-oxidation; Mitochondrion; Mutant (Gordon, J.A. (1085) 21)

Hexachlorocyclohexane
Pesticide; Erythrocyte membrane; Raman spectroscopy; Thermal transition; Protein structure (Verma, S.P. (1070) 265)

Δ^3-*trans*-Hexadecenoic acid
Thylakoid stacking; Excitation energy transfer; Light-harvesting chlorophyll-protein complex; (*C. reinhardtii*) (Trémolières, A. (1059) 286)

Hexagonal H_{II} phase
Total lipid; Phosphatidylethanolamine; Phosphatidylglycerol; Sodium chloride; Halophilic bacterium (Sutton, G.C. (1061) 235)

Hexagonal phase
NMR, ^{2}H-; Freeze-fracture; Polymorphism; Stratum corneum lipid; Barrier function; Ceramide (Abraham, W. (1068) 189)

Hexagonal transition
Phosphatidylcholine; Phosphatidylethanolamine; Transition temperature; Chainlength dependence (Marsh, D. (1062) 1)

1-Hexanol
NMR, ^{2}H-; Partition coefficient; Lipid membrane (Fraser, D.M. (1069) 53)

Hexokinase
Mitochondrion; Brain; Tumor; ATP (Kabir, F. (1057) 147)

Hexokinase activity
Ubiquitin; ATP; Glycolytic enzyme (Murakami, K. (1080) 83)

Hexosaminidase C
Neutral β-*N*-acetylglucosaminidase; Enzyme purification; (Carp blood) (Ueno, R. (1074) 79)

β-Hexosaminidase isozyme
Lysosomal storage disease; Tay-Sachs disease; Sandhoff disease (Mahuran, D.J. (1096) 87)

Hexose
Absorption; Adaptation; Alcohol; Cholesterol; Fatty acid; Galactose; Glucose (Thomson, A.B.R. (1084) 122)

Hexose transport
Alveolar epithelium; Sodium/phosphate cotransport; Sodium ion/alanine cotransport; Lung cell culture; (Rat) (Clerici, C. (1063) 27)

Transport kinetics; Carrier; Deuterium oxide; (Rat erythrocyte) (Naftalin, R.J. (1064) 37)

Cultured epithelial monolayer; Epithelial monolayer; Culture condition; (Caco-2 cells) (Riley, S.A. (1066) 175)

Hexose transporter kinetics
Plasma membrane; Tonoplast; *N*-Ethylmaleimide; (*N. tabacum*) (Verstappen, R. (1073) 366)

Hexose uptake
Blood-brain barrier; Brain microvessel endothelial cell; 3-*O*-Methyl-D-glucose; Insulin; Glucose transporter (Takakura, Y. (1070) 1)

Hibernation
Cardiac sarcoplasmic reticulum; Calsequestrin; Ryanodine receptor (Milner, R.E. (1063) 120)

High affinity heparin-LDL complex
Lipoprotein metabolism; Cholesteryl ester accumulation; Heparin; (Mouse peritoneal macrophage) (Srinivasan, S.R. (1081) 188)

High affinity transport
Choline; Hemicholinium-3; Monoclonal antibody; Purification; Synaptic plasma membrane (Knipper, M. (1065) 107)

High energy state
Chlorophyll fluorescence; Quenching; Fluorescence quenching (Ruban, A.V. (1059) 355)

High performance molecular-sieve chromatography
Absorption coefficient; Glucose transporter; Low-angle laser light scattering; Laser light scattering; Octyl glucoside; Phospholipid; (Human erythrocyte) (Lundahl, P. (1067) 177)

High potential iron-sulfur protein
EPR; Spectroscopy; Mossbauer spectroscopy; Cubane; Structure; *g*-Strain; Salt effect (Dunham, W.R. (1079) 253)

High-spin / low-spin equilibrium
Cytochrome *P*-450; Electronic absorption spectra; Spin state (Jung, C. (1076) 130)

Hill coefficient
Protein kinase C; Lipid regulation; Phosphatidylserine; Activation; Kinetic model; Ligand trapping (Sandermann, Jr., H. (1069) 235)

HiPIP
Electron transfer protein; Cytochrome *c*; (Purple bacterium) (Bartsch, R.G. (1058) 28)

Histamine
Intestinal ischemia; Diamine oxidase (Koshi, S. (1075) 231)

Histidine
Horseradish peroxidase; Catalytic site; Chemical modification (Urrutigoïty, M. (1079) 209)

Histidine assignment
Platelet factor 4; NMR, ^{1}H-; Heparin-binding (Talpas, C.J. (1078) 208)

Histidine modification
Succinate dehydrogenase; Diethyl pyrocarbonate; Membrane anchoring protein; (Mitochondria) (Paudel, H.K. (1056) 159)

Histone
DNA methylation; Chromatin (Caiafa, P. (1090) 38)

Histone gene
Minor small nuclear ribonucleoprotein; Gene family; RNA 3′ processing; (*Mus musculus*) (Gruber, A. (1088) 151)

Histone gene expression
Cell cycle; Transcriptional control (Heintz, N. (1088) 327)

Histone H1
C-domain; Composition; Residue spacing; Conservation; Helicity; Sequence analysis (Maeder, D.L. (1076) 233)

Histone $H1^0$
Calcium chloride; HMG-like; Microplasmodium; (*P. polycephalum*) (Heads, R.J. (1079) 15)

Histone synthesis
Chlorambucil; Histone variant; S-phase; Hydroxyurea; DNA synthesis; Alkylating agent (Sourlingas, T.G. (1092) 298)

Histone variant
Chlorambucil; Histone synthesis; S-phase; Hydroxyurea; DNA synthesis; Alkylating agent (Sourlingas, T.G. (1092) 298)

HIT-T15 cell
Beta-cell; Depolarization; Cytosolic calcium; Lactate; Cation permeability (Lynch, A.M. (1091) 141)

HIV
Chemical crosslinker; CD4 protein; AIDS; Drug delivery (Idziorek, T. (1062) 39)

Hepatitis B virus; Phospholipid prodrug; AZT; Dideoxycytidine; 3′-Deoxythymidine; Mitochondrion; Microsome (Van Wijk, G.M.T. (1086) 99)

Nucleotide metabolism; Chemotherapy; Immunodeficiency (Carson, D.A. (1091) 22)

T lymphocyte; Lymphocyte–virus interaction; Immune recognition; Receptor binding (Phillips, R.E. (1096) 10)

HIV type 1
Virus neutralizing domain (Murakami, T. (1079) 279)

HL60
Ascorbate; Plasma membrane; Redox system (Alcain, F.J. (1073) 380)

Phospholipase A_2; Phospholipase C; Inositol phosphate; Guanine nucleotide; *N*-Formylmethionylleucylphenylalanine (Nielson, C.P. (1095) 83)

HL60 cell
Inositol transport; Myeloid differentiation; Neutrophil (Baxter, M.A. (1091) 158)

HMG-CoA reductase
Cholesterol; Staphylococcal epidermolytic toxin; Permeability barrier; Transepidermal water loss (Proksch, E. (1083) 71)

Cholesterol synthesis; Perinatal liver development (Haave, N.C. (1085) 35)

HMG-CoA reductase inhibitor
Diabetes; Cholesterol; Hyperlipidemia; Lipoprotein (Arbeeny, C.M. (1096) 238)

HMG-like
Calcium chloride; Histone $H1^0$; Microplasmodium; (*P. polycephalum*) (Heads, R.J. (1079) 15)

HMG proteins 1 and 2
cis-Diamminedichloroplatinum (II); Chromatin structure (Hayes, J.J. (1088) 413)

Homeobox
Homeodomain; Hox-4.3; Hox-5.4; (Mouse) (Sadoul, R. (1089) 259)

Homeodomain
Homeobox; Hox-4.3; Hox-5.4; (Mouse) (Sadoul, R. (1089) 259)

Homeoviscous adaptation
Temperature adaptation; Desaturase; DPH polarization; Fluorescence (Wodtke, E. (1064) 343)

Homoserine lipid
DSC; Fluorescence depolarization; Lipid phase transition; (*Chlamydomonas*) (Sato, N. (1082) 108)

Homoserine-*O*-acetyltransferase
Methionine synthesis; Posttranscriptional regulation; (*S. cerevisiae*) (Forlani, N. (1089) 47)

Homotypic adhesion
LFA-1; Monocyte differentiation (Cabañas, C. (1092) 165)

Hopanoid
Squalene-tetrahymanol cyclase; Tetrahymanol; Sterol surrogate; (*Tetrahymena*) (Saar, J. (1075) 93)

Hormone
Cholesterol; Bile acid; Estrogen; Progesterone (Kushwaha, R.S. (1084) 300)

Hormone release
Fluorescence; Confocal microscopy; Imaging; Exocytosis; Mast cell (Kawasaki, Y. (1067) 71)

Hormone-sensitive lipase
Cholesterol ester hydrolase; Mammary tissue; Protein phosphorylation (Small, C.A. (1082) 251)

Horseradish peroxidase
Catalytic site; Chemical modification; Histidine (Urrutigoïty, M. (1079) 209)

Thiocyanate; Lactoperoxidase (Modi, S. (1080) 45)

cDNA; Nucleic acid sequence; (*Armoracia rusticana*) (Bartonek-Roxå, E. (1088) 245)

Cyanide; Lucifer yellow; Sucrose; ATP; Phosphate transport (Kempson, S.A. (1091) 324)

Host cell alteration
Malaria; Parasite–host interaction; Phospholipid flip-flop; (Erythrocyte membrane); (*P. falciparum*) (Simões, A.P. (1063) 45)

Hox-4.3
Homeobox; Homeodomain; Hox-5.4; (Mouse) (Sadoul, R. (1089) 259)

Hox-5.4
Homeobox; Homeodomain; Hox-4.3; (Mouse) (Sadoul, R. (1089) 259)

HPLC
Bacteriochlorophyll *g*; Bacteriochlorophyll *g* epimer; Pigment composition; (*H. chlorum*); (*Hb. mobilis*) (Kobayashi, M. (1057) 89)

ATPase, F_1-; Protein purification; Mitochondrion; IEF (Gagliardi, D. (1059) 323)

Acylgramicidin; Acylprotein; DMPC; Gramicidin A; Monolayer; NMR; CD (Vogt, T.C.B. (1069) 157)

Kallikrein; Proenkephalin; Enkephalin processing (Mindroiu, T. (1076) 9)

Lysoganglioside; Ganglioside; Gangliosidosis (Kobayashi, T. (1081) 159)

Cestode lipid; Glycosphingolipid; Sphingomyelin; FABMS (Nishimura, K. (1086) 141)

Phorbol ester; Sphingosine; (B lymphocyte) (Miccheli, A. (1095) 90)

HPLC, RP-
Hemoglobin Calais; Human hemoglobin variant; Beta-chain; Oxygen affinity (Wajcman, H. (1096) 60)

Hsp68
Heat shock; Ischemia; In vitro system (Tuijl, M.J.M. (1091) 278)

Human
Phospholipase C; Melanoma; Phosphatidylinositol (Perrella, F.W. (1076) 209)

Glycation; Collagen; Intervertebral disc; Aging (Hormel, S.E. (1078) 243)

Lactate dehydrogenase gene; Cloning; Gene expression; (*B. stearothermophilus*) (Barstow, D.A. (1087) 73)

Human breast cancer
Thymidine kinase; Progestin; Breast cancer (Moore, M.R. (1096) 170)

Human colon
Glutathione *S*-transferase; Glyoxylase I (Clapper, M.L. (1096) 209)

Human cord blood
Apolipoprotein-specific HDL; Chemical crosslinking; FPLC; Immunoaffinity chromatography (Nichols, A.V. (1085) 306)

Human erythrocyte
Hypoxanthine-guanine phosphoribosyltransferase; Lesch-Nyhan; Gout; Recombinant enzyme; Gene expression (Free, M.L. (1087) 205)

Human gene
Insulin-like growth factor; IGF-II; Gene structure; Promoter (Holthuizen, P. (1087) 341)

Human hemoglobin variant
Hemoglobin Calais; Beta-chain; Oxygen affinity; HPLC, RP- (Wajcman, H. (1096) 60)

Human immunodeficiency virus
Nucleoside diphosphate diglyceride; AZT; Pyrophosphatase; Mitochondrion (Van Wijk, G.M.T. (1084) 307)

Human keratinocyte
Chloride transport; Anion exchange; Chloride ion channel; Lipoxygenase (Mastrocola, T. (1097) 275)

Human lymphocyte
S-Adenosylmethionine synthetase; Enzyme activation; Product inhibition; Phosphate; Pyrophosphate (De La Rosa, J. (1077) 225)

Human neutrophil
Alkaline phosphatase; Uric acid; Kinetic parameter (Vergnes, H.A. (1076) 152)

PAF; Phospholipase A_2; 5-Lipoxygenase; Acetyltransferase; Alkylacylglycerol (Bauldry, S.A. (1084) 178)

Arachidonic acid metabolism; Leukotriene B_4 synthesis; Calcium ionophore A23187; Allergy; Ether-linked glycerophospholipid (Chabannes, B. (1093) 47)

Human pancreatic elastase 1
Autoantibody; Radioimmunoassay; Affinity constant (Asada, H. (1080) 34)

Human plasma protein
Thermolabile protein; Hakata antigen; Systemic lupus erythematosus (Yae, Y. (1078) 369)

Human platelet
DNA topoisomerase I; Mitochondrion; Camptothecin (Kosovsky, M.J. (1078) 56)

Human polymorphonuclear neutrophils
PAF-acether; Lyso-PAF-acether : acetyl-CoA acetyltransferase (Ninio, E. (1085) 136)

Human serum albumin
Protein translational diffusion; Spin label; EPR, saturation transfer (Khramtsov, V.V. (1068) 257)

Hyaluronan
Hyaluronic acid; Receptor; Endothelial cell; Membrane protein; Polyclonal antibody; (Rat liver) (Forsberg, N. (1078) 12)

Hyaluronan-binding protein
Macrophage; Protein (Gustafson, S. (1091) 36)

Hyaluronate
Pregnancy; Cervix; Proteoglycan; (Ewe) (Anderson, J.C. (1075) 187)

Hyaluronate binding protein
Extracellular matrix; Glia (Perides, G. (1075) 248)

Hyaluronic acid
Hyaluronan; Receptor; Endothelial cell; Membrane protein; Polyclonal antibody; (Rat liver) (Forsberg, N. (1078) 12)

Hyaluronic acid synthesis
Endothelial cell; Hyaluronic acid synthetase inhibitor; Transformation (Amanuma, K. (1092) 336)

Hyaluronic acid synthetase inhibitor
Endothelial cell; Hyaluronic acid synthesis; Transformation (Amanuma, K. (1092) 336)

Hybrid enrichment
Electrofusion; Evacuolated plant protoplast; Selectable marker; Hypo-osmolar medium (Pfister, E. (1062) 13)

Hybrid protein
Tumor necrosis factor; Antibody; (Mouse myeloma cell) (Hoogenboom, H.R. (1096) 345)

Hydration
Phase behavior; Dipalmitoylphosphatidylcholine (Rudolph, A.S. (1066) 90)

Hydration pressure
Cholesterol; Rippled phase; Steric pressure (Simon, S.A. (1064) 69)

Hydrocarbon
Sarcoplasmic reticulum; Calcium ion transport; Excitation–contraction coupling; Halothane (Ritov, V.B. (1067) 187)

Hydrocarbon chain packing
Dipalmitoylphosphatidic acid; Poly(L-lysine); Electron density profile; X-ray diffraction (Takahashi, H. (1069) 229)

Hydrogenase
Cyanobacterium; Alga; Cytochrome *c*; Ferredoxin (Krogmann, D.W. (1058) 35)

Rubredoxin; Metal replacement; Nickel-substituted rubredoxin; Nickel coordination; (*D. vulgaris*) (Mus-Veteau, I. (1060) 159)

Nitric oxide inhibition; (*A. vinelandii*) (Hyman, M.R. (1076) 165)

Hydrogenation
Isomer; *trans* Double bond; Conversion; Linoleic acid; Metabolism; (Mice) (Beyers, E.C. (1082) 275)

Hydrogen bond
Sterol exchange; Sphingomyelin; Synthetic phospholipid; Cholesterol–phosphatidylcholine interaction; Phosphatidylcholine bilayer (Kan, C.-C. (1066) 95)

Hydrogen bonding
Phospholipid; Cardiolipin; Diphosphatidylglycerol; Deoxycardiolipin; FTIR (Hübner, W. (1066) 166)

Protonic conduction; Lysozyme; Protein-bound water (Bone, S. (1078) 336)

Hydrogen peroxide
Luminol chemiluminescence; Menadione; Oxygen, active species; NADH : menadione oxidoreductase; Yeast cell (Yamashoji, S. (1059) 99)

Oxidative damage; Erythrocyte; (Human) (Chen, M.-j. (1066) 193)

ATPase, Mg^{2+}-; ATPase, Ca^{2+}-stimulated; Sulfhydryl group; Superoxide anion; Hypochlorous acid; (Rat heart myofibril) (Suzuki, S. (1074) 95)

Spin trapping; EPR; Superoxide; Free radical; Hydroxyl radical; 5,5-Dimethylpyrroline *N*-oxide (Britigan, B.E. (1075) 213)

Myoglobin; Radical; Electron spin resonance; Phenoxyl; Peroxide; Ferryl (Davies, M.J. (1077) 86)

Singlet oxygen; Phospholipid membrane; 1,3-Diphenylisobenzofuran; Hypochlorite (Wozniak, M. (1082) 94)

Glutathione level; Cystine transport; (Mouse peritoneal macrophage) (Bannai, S. (1092) 175)

Hemoglobin; Oxidative stress; Erythrocyte; Hemolysis; (Mouse) (Kruckeberg, W.C. (1094) 288)

Hydrogen peroxide metabolism
Germination; Superoxide dismutase; (Soybean) (Puntarulo, S. (1074) 277)

Hydrolase
Leukotriene A_4; Metalloenzyme (Wetterholm, A. (1080) 96)

Hydrolysis
Phospholipase A_2; Gastric lipase; Carboxyl ester lipase (Lindström, M.B. (1084) 194)

Hydroperoxide
1-Aminocyclopropane-1-carboxylic acid; Ethylene; Ethylene forming enzyme; Free radical; Peroxidase; Manganese (Acosta, M. (1077) 273)

Hydroperoxide dehydrase
α-Linolenic acid 13-hydroperoxide; Allene oxide, hydrolysis mechanism; 11-Hydroxy-12-oxo-9(*Z*),15(*Z*)-octadecadienoic acid, novel ketol; (Flax seed) (Grechkin, A.N. (1086) 317)

Hydroperoxide product
Lipoxygenase pathway; Plant enzyme; Enzyme pathway; Fatty acid hydroperoxide (Gardner, H.W. (1084) 221)

Hydroperoxy fatty acid
12-Lipoxygenase; 12-Hydroxyicosatetraenoic acid; 13-Hydroxyoctadecadienoic acid; Enzyme inactivation; (Rat basophilic leukemia cell) (Van der Donk, E.M.M. (1081) 135)

Hydroperoxyoctadecadienoic acid
5-Lipoxygenase; 15-Lipoxygenase; Vitamin E; Peroxidase; Xenobiotic oxidation (Cucurou, C. (1081) 99)

Hydrophilic channel
Polyol; Partial molar volume; Group additivity; Van der Waals radius; Single file transport (Kiyosawa, K. (1064) 251)

Hydrophilicity
Steroid hydroxylation; Biliary excretion; Bile salt; (Rat liver) (Crawford, J.M. (1085) 223)

Hydrophobic bonding
Oligosaccharide; Chain conformation; Amphiphilic surface; Lectin-sugar binding; Antigen–antibody interaction; Cell surface oligosaccharide (Sundari, C.S. (1065) 35)

Hydrophobic chromatography
Alkaline phosphatase; *p*-Nitrophenyl phosphate; Osseous matrix; Divalent ion; (Rat) (Say, J.C. (1074) 256)

Hydrophobic domain
Chimeric protein; Fusion protein; Cytochrome b_5; β-Galactosidase; Phosphatidylcholine; Liposome (George, S.K. (1061) 26)

Hydrophobic helix
Bundle; Helix–lipid association (Wang, J. (1070) 493)

Hydrophobic interaction
Endotoxin adsorption; Affinity matrix (Hou, K.C. (1073) 149)

Hydrophobic proteoheparan
Proteoglycan; (Sertoli cell) (Mounis, A. (1074) 424)

Hydroquinone
Tyrosinase; Melanogenesis inhibition (Palumbo, A. (1073) 85)

Hydroxyapatite
Dentin; Bone; Matrix protein; Phosphoprotein (Fujisawa, R. (1075) 56)

Hydroxyarchaeol
Ether lipid; Archaebacterium; Serine lipid; Inositol lipid; (*M. barkeri*) (Nishihara, M. (1082) 211)

2-Hydroxyestradiol
Tyrosinase; Melanin; Estradiol; Estradiol-2,3-quinone; Dopa; FTIR (Jacobsohn, M.K. (1073) 1)

Hydroxy fatty acid
Ceramide digalactoside; Ceramide monohexoside; Long-chain base, branched; FABMS; (Sponge); (*H. japonica*) (Hayashi, A. (1083) 179)

Hydroxyicosatetraenoic acid
Arachidonic acid metabolism; Lipoxygenase; Chiral analysis; Phorbol ester; (Mouse skin) (Hughes, M.A. (1081) 347)

5-Hydroxyicosatetraenoic acid
5-Lipoxygenase; Sulfidopeptide-leucotriene; Arachidonic acid; Oxygen saturation; Mucosal blood flow; Gastric ulcer (Pasechnikov, V.D. (1097) 45)

12-Hydroxyicosatetraenoic acid
12-Lipoxygenase; 13-Hydroxyoctadecadienoic acid; Enzyme inactivation; Hydroperoxy fatty acid; (Rat basophilic leukemia cell) (Van der Donk, E.M.M. (1081) 135)

15-Hydroxyicosatetraenoic acid
Endothelial cell; Hydroxyoctadecadienoic acid (Baer, A.N. (1085) 45)

Hydroxylamine
Photosynthesis; Oxygen evolution; Absorption change; Manganese; S state; (*Synechococcus*) (Kretschmann, H. (1059) 208)

Nitroxide spin label; Reduction; Oxidation; EPR; (Proxyl) (Sentjurc, M. (1073) 329)

24-Hydroxylase
Kinetics; Periodate assay; Vitamin D (Burgos-Trinidad, M. (1078) 226)

Hydroxylase activator
Protein, 14.3.3; Protein kinase C inhibitor protein; (Human cDNA) (Nielsen, P.J. (1088) 425)

Hydroxyl radical
Spin trapping; EPR; Superoxide; Free radical; Hydrogen peroxide; 5,5-Dimethylpyrroline *N*-oxide (Britigan, B.E. (1075) 213)

DNA damage; Copper (Sinha, B.K. (1096) 81)

3-Hydroxy-3-methylglutaryl CoA reductase
Inhibition; Diallyl disulfide (Om Kumar, R.V. (1078) 219)

Hydroxymethylglutaryl-CoA reductase
Cholesterol; Acyl-CoA : cholesteryl acyltransferase; LDL; HDL; Cell growth; (Rat intestine); (IEC-6 cell) (Reimann, F.M. (1085) 315)

13-Hydroxyoctadecadienoate
Oxidized linoleate; Colonic mucosal metabolism; 13-Hydroxyoctadecadienoate dehydrogenase (Earles, S.M. (1081) 174)

13-Hydroxyoctadecadienoate dehydrogenase
13-Hydroxyoctadecadienoate; Oxidized linoleate; Colonic mucosal metabolism (Earles, S.M. (1081) 174)

Hydroxyoctadecadienoic acid
Endothelial cell; 15-Hydroxyicosatetraenoic acid (Baer, A.N. (1085) 45)

13-Hydroxyoctadecadienoic acid
12-Lipoxygenase; (Rat basophilic leukemia ell) (Van der Donk, E.M.M. (1074) 443)

12-Lipoxygenase; 12-Hydroxyicosatetraenoic acid; Enzyme inactivation; Hydroperoxy fatty acid; (Rat basophilic leukemia cell) (Van der Donk, E.M.M. (1081) 135)

11-Hydroxy-12-oxo-9(*Z*),15(*Z*)-octadecadienoic acid, novel ketol
Hydroperoxide dehydrase; α-Linolenic acid 13-hydroperoxide; Allene oxide, hydrolysis mechanism; (Flax seed) (Grechkin, A.N. (1086) 317)

3α-Hydroxysteroid dehydrogenase
Cytosolic protein; Bile acid transport; Indomethacin; (Rat hepatocyte) (Takikawa, H. (1084) 247)

Δ^5–3β-Hydroxysteroid dehydrogenase-isomerase activity
Percoll purification; Leydig cell culture (Murono, E.P. (1091) 55)

11β-Hydroxysteroid dehydrogenase
Corticosteroid metabolism; 11-Dehydrocorticosterone; Enzyme inhibitor; Glycyrrhetinic acid; (Rat kidney) (Bühler, H. (1075) 206)

20α-Hydroxysteroid dehydrogenase
Enzyme purification; (Rat ovary) (Noda, K. (1079) 112)

Hydroxyurea
Chlorambucil; Histone variant; Histone synthesis; S-phase; DNA synthesis; Alkylating agent (Sourlingas, T.G. (1092) 298)

Hydroxyurea resistance
Gene amplification; Drug resistance; Ribonucleotide reductase regulation (Hurta, R.A.R. (1087) 165)

Hypelcin A
Trichopolyn I; Phosphatidylcholine bilayer; Permeability; Conformation; Orientation (Matsuzaki, K. (1070) 419)

Hyperammonemia
NMR, ^{15}N-; Cerebral glutamine; Portacaval shunt; Hepatic encephalopathy; (Rat brain) (Kanamori, K. (1096) 270)

Hypercholesterolemia
Cholesterol; Copper deficiency; Tritiated water; (Rat) (Yount, N.Y. (1082) 79)

LDL; Cholesterol synthesis; Simvastatin; Pravastatin (Owens, D. (1082) 303)

Hypertriglyceridemia; Cholesterol-feeding; Apolipoprotein (Quig, D.W. (1083) 257)

Atherosclerosis; Benfluorex; Diabetes; Hypertriglyceridemia; Insulin resistance; Obesity; Triacylglycerol synthesis (Brindley, D.N. (1085) 119)

Lecithin-cholesterol acyltransferase; Hyperphospholipidemia; Prematurity; (Newborn infant) (Jain, S.K. (1086) 225)

Apolipoprotein B metabolism; Posttranscriptional regulation; (Cynomolgus monkey) (Pape, M.E. (1086) 326)

Apolipoprotein B; Receptor binding domain; LDL receptor; Gene mutation; (Human fibroblast) (Dunning, A.M. (1096) 231)

Hyperglycemia
Amino acid transport; Brush-border membrane vesicle; (Guinea-pig small intestine) (Satoh, O. (1063) 155)

Hyperlipidemia
Gene expression; Atherosclerosis; Apolipoprotein; LDL receptor; Hypolipidemic drug; Probucol (Staels, B. (1085) 131)

Diabetes; HMG-CoA reductase inhibitor; Cholesterol; Lipoprotein (Arbeeny, C.M. (1096) 238)

Hyperosmotic stress
Microelectrode; Transmembrane potential; Intracellular potassium ion activity; Transference number; Potassium, intracellular; Cell volume; (Mouse liver) (Wang, K. (1069) 187)

Hyperphospholipidemia
Lecithin-cholesterol acyltransferase; Hypercholesterolemia; Prematurity; (Newborn infant) (Jain, S.K. (1086) 225)

Hyperpolarization
pH effect; Sodium–potassium ion exchange; Organic acid; Basolateral membrane potential; Membrane potential; Proximal tubule; (*Necturus* kidney) (Granitzer, M. (1066) 111)

Hypertension
Cytochrome *P*-450; Western blotting; (Rat hepatic microsome); (Rat renal microsome) (Imaoka, S. (1074) 209)

Hepoxilin A_3 conjugate; Glutathione *S*-transferase; γ-Glutamyltranspeptidase; Aorta; Contraction; (Blood vessel); (Rat) (Laneuville, O. (1084) 60)

Lead toxicity; Calcium homeostasis; NMR, ^{19}F-; (Human platelet) (Dowd, T.L. (1092) 341)

Hyperthyroidism
Skeletal muscle sarcolemma; Lipid content; Phospholipid fatty acid composition; Fluorescence polarization; Membrane fluidity; Calcium pump; ATPase, Ca^{2+}-; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

VLDL; VLDL apoprotein; Apolipoprotein E (Wilcox, H.G. (1081) 246)

Cardiac muscle sarcolemma; Hypothyroidism; Phospholipid fatty acid composition; Phospholipase A_1; Phospholipase A_2; (Rabbit cardiac muscle) (Szymańska, G. (1083) 265)

Hepatic fatty acid synthesis; (Perfused rat liver) (Castellani, L.W. (1086) 197)

Hypertriglyceridemia
Hypercholesterolemia; Cholesterol-feeding; Apolipoprotein (Quig, D.W. (1083) 257)

Atherosclerosis; Benfluorex; Diabetes; Hypercholesterolemia; Insulin resistance; Obesity; Triacylglycerol synthesis (Brindley, D.N. (1085) 119)

Hypochlorite
Singlet oxygen; Phospholipid membrane; 1,3-Diphenylisobenzofuran; Hydrogen peroxide (Wozniak, M. (1082) 94)

Hypochlorous acid
ATPase, Mg^{2+}-; ATPase, Ca^{2+}-stimulated; Sulfhydryl group; Superoxide anion; Hydrogen peroxide; (Rat heart myofibril) (Suzuki, S. (1074) 95)

Polymorphonuclear leukocyte; SH group; Amino group; Luminol; (Human plasma) (Arnhold, J. (1097) 145)

Hypolipidemic drug
Gene expression; Hyperlipidemia; Atherosclerosis; Apolipoprotein; LDL receptor; Probucol (Staels, B. (1085) 131)

Hypomethylation
DNA methylation; Testicular cancer; (Human) (Peltomäki, P. (1096) 187)

Hypo-osmolar medium
Electrofusion; Evacuolated plant protoplast; Selectable marker; Hybrid enrichment (Pfister, E. (1062) 13)

Hypotaurine
Taurine; Radical scavenger; Neurophil activation; Antioxidant; (Human neutrophil) (Green, T.R. (1073) 91)

Hypothyroidism
Phosphate transport; Lipid composition; Mitochondrion; (Rat liver) (Paradies, G. (1070) 180)

Cardiac muscle sarcolemma; Hyperthyroidism; Phospholipid fatty acid composition; Phospholipase A_1; Phospholipase A_2; (Rabbit cardiac muscle) (Szymańska, G. (1083) 265)

Hypotonic shock
Chloride transport; Chloride channel; Potassium ion channel; Regulatory volume decrease (RVD); (Human fibroblast) (Mastrocola, T. (1069) 201)

Hypoxanthine
Xanthine oxidase; Superoxide; Xanthine; Uric acid; Inhibition (Rubbo, H. (1074) 386)

Hypoxanthine-guanine phosphoribosyltransferase
Lesch-Nyhan; Gout; Recombinant enzyme; Gene expression; Human erythrocyte (Free, M.L. (1087) 205)

Hypoxanthine-guanine phosphoribosyltransferase (HPRT)
Phosphoribosyltransferase; Tryptic peptide; Nucleotide binding site (Keough, D.T. (1096) 95)

Hypoxanthine phosphoribosyl transferase gene
mRNA; Gene expression; Mitogen stimulation; Enzyme activity; (Human lymphocyte) (Steen, A.-M. (1088) 77)

Hypoxanthine transport
Carrier mobility; Adenine transport; Transport kinetics; (Human erythrocyte) (Kraupp, M. (1070) 157)

Hypoxia
Nitroxide metabolism; Red blood cell; Doxyl stearic acid; Free radical; Hemoglobin (Minetti, M. (1074) 112)

Hypoxic recovery; Phosphoarginine; ATP; NMR, in vivo; NMR imaging; (Mussel) (Fan, T.W.-M. (1092) 39)

Hypoxic recovery
Hypoxia; Phosphoarginine; ATP; NMR, in vivo; NMR imaging; (Mussel) (Fan, T.W.-M. (1092) 39)

Hypusine
α-(β-Alanyl)hypusine; (Bovine brain) (Ueno, S.-i. (1073) 233)

Eukaryotic initiation factor; Protein synthesis initiation factor (Chung, S.I. (1076) 448)

I

IAPP gene
Islet amyloid polypeptide; Amylin; Type 2 diabetes mellitus; Diabetes mellitus; Gene structure; (Rat); (Human) (Van Mansfeld, A.D.M. (1087) 235)

IAP-sensitive G-protein
c-*fos* mRNA; Adipocyte differentiation; (3T3-L1 fibroblast) (Uehara, T. (1088) 41)

Ibuprofen isomerization
Stereoselective drug metabolism; 2-Arylpropionyl-CoA epimerase (Chen, C.-S. (1078) 411)

ICAM-1
Retinoid; Cancer cell (Bouillon, M. (1097) 95)

I-cell disease
Niemann-Pick disease type C; Phenotypic heterogeneity; Intracellular cholesterol processing; Sphingomyelinase; Lipid storage disorder; (Skin fibroblast culture) (Vanier, M.T. (1096) 328)

Icosanoid dependency
Lysophospholipid formation; Collagen stimulation; (Human platelet) (Thomas, L.M. (1081) 92)

Icosanoid formation
Phospholipase A_2; Immunofluorescence; Immunoelectron microscopy; (Rat vascular smooth muscle cell) (Kurihara, H. (1082) 285)

Icosanoid production
Endothelial cell; Membrane fatty acid composition; Procoagulant activity; Polymorphonuclear leukocyte adherence; Arachidonic acid (Vossen, R.C.R.M. (1083) 243)

Icosapentaenoate
Fatty acid retroconversion; Δ^4-Desaturation; Docosatetraenoate; Docosapentaeonate; Arachidonate; (Human skin fibroblast); (Retinoblastoma cell) (Rosenthal, M.D. (1083) 29)

Icosapentaenoic acid
Omega-3 fatty acid; Platelet; Fish oil; Thrombosis (Wojenski, C.M. (1081) 33)

Peroxisomal β-oxidation; Beta oxidation, peroxisomal; Docosahexaenoic acid; Clofibrate; Phospholipid; (Rat. *hepatocyte)* (Grønn, M. (1081) 85)

1-Radyl-2-acetyl-*sn*-glycerophosphocholine; PAF; Arachidonic acid; Phorbol myristate acetate; (Vascular endothelial cell) (Garcia, M.C. (1083) 37)

($n-3$) Fatty acid; Docosahexaenoic acid; Osmotic fragility; Phospholipid; Erythrocyte (Hagve, T.-A. (1084) 251)

Fatty acid elongation; Fatty acid desaturation; Arachidonic acid; Clofibrate; (Rat liver) (Mimouni, V. (1086) 349)

Icosapentanoic acid
Arachidonic acid; Chylomicron; Docosahexaenoic acid; Hepatic lipase; Lipoprotein lipase (Melin, T. (1075) 259)

Δ-5,11,14,17-Icosatetraenoate
Phosphatidylinositol; Δ-5,11,14-Icosatrienoate; Phospholipid; Fatty acid; (*P. orientalis*); (*A. vulgaris*) (Berger, A. (1085) 371)

Δ-5,11,14-Icosatrienoate
Phosphatidylinositol; Δ-5,11,14,17-Icosatetraenoate; Phospholipid; Fatty acid; (*P. orientalis*); (*A. vulgaris*) (Berger, A. (1085) 371)

IEC-6
HDL; Receptor; Retroendocytosis; Cholesterol; (Rat intestinal crypt cell) (Rogler, G. (1095) 30)

IEF
ATPase, F_1-; Protein purification; Mitochondrion; HPLC (Gagliardi, D. (1059) 323)

IGF-II
Insulin-like growth factor; Human gene; Gene structure; Promoter (Holthuizen, P. (1087) 341)

Ig switch region
Burkitt lymphoma; Polymerase chain reaction; (Namalwa) (Middleton, P.G. (1090) 109)

IHF
Transposable phage; D3112 left end; Nucleotide sequence; Repressor protein; (*Pseudomonas*) (Autexier, C. (1088) 147)

Illumination
Phosphorylation; Protein kinase; Phospho*enol*pyruvate carboxylase; (Maize leaf) (McNaughton, G.A.L. (1093) 189)

Imaging
Fluorescence; Confocal microscopy; Exocytosis; Hormone release; Mast cell (Kawasaki, Y. (1067) 71)

Immobilization
Cross-linking; Oxygen evolution, stabilization; Extrinsic 33 kDa protein; Protein, 47 kDa; Protein stoichiometry (Enami, I. (1060) 224)

Immobilized enzyme
Lignin peroxidase; Flow injection analysis (Fawer, M.S. (1076) 15)

Immune recognition
HIV; T lymphocyte; Lymphocyte–virus interaction; Receptor binding (Phillips, R.E. (1096) 10)

Immune response
Nitrite; Interferon γ; T cell regulation (Takagi, K. (1092) 15)

Immunoadsorption
Glucose transport; Nucleoside transport; Monoclonal antibody; (Human erythrocyte) (Jhun, B.H. (1061) 149)

Immunoaffinity chromatography
Amino acid sequence, partial; Catechol-*O*-methyltransferase; (Pig liver) (Bertocci, B. (1080) 103)

Lipoprotein particle; Apolipoprotein B (Bard, J.M. (1082) 170)

Apolipoprotein-specific HDL; Chemical crosslinking; FPLC; Human cord blood (Nichols, A.V. (1085) 306)

Immunoassay
Crystallin; Immunohistochemistry (Kato, K. (1074) 201)

Parvalbumin; Muscle; Nervous tissue (Inaguma, Y. (1075) 68)

Crystallin; Lens; Immunohistochemistry; (Spleen) (Kato, K. (1080) 173)

Immunoblotting
Bile acid binding protein; Rat ileal cytosol; Photoaffinity labeling; Amino acid composition; Amino acid sequence (Lin, M.C. (1078) 329)

Peroxisome; Fatty acid oxidation; Cerebrohepatorenal syndrome; X-linked adrenoleukodystrophy; (Fibroblast) (Reubsaet, F.A.G. (1083) 305)

Immunodeficiency
Nucleotide metabolism; Chemotherapy; HIV (Carson, D.A. (1091) 22)

Immunoelectron microscopy
Phospholipase A_2; Icosanoid formation; Immunofluorescence; (Rat vascular smooth muscle cell) (Kurihara, H. (1082) 285)

Immuno-flow cytometry
Immunoprecipitation; Mitochondrial protein; Cytochrome *c* oxidase; Mitochondrial myopathy (Van den Bogert, C. (1097) 87)

Immunofluorescence
Phospholipase A_2; Icosanoid formation; Immunoelectron microscopy; (Rat vascular smooth muscle cell) (Kurihara, H. (1082) 285)

Lens; MIP; Hereditary cataract; Chimaera; (Mouse) (Shiels, A. (1097) 318)

Immunoglobulin
Erythrocyte aggregation; Fibrinogen; Sialic acid; Erythrocyte; (Human) (Izumida, Y. (1067) 221)

Light chain deposition disease; Amino acid sequence (Bellotti, V. (1097) 177)

Immunoglobulin superfamily
Cell growth; Cell cycle; Interleukin-1 receptor (Tominaga, S.-i. (1090) 1)

Cell adhesion molecule; L1; cDNA cloning; (Human neuron) (Kobayashi, M. (1090) 238)

Immunogold electron microscopy
Plasma membrane; Yeast; ATPase; Glycoprotein; Membrane domain (Serrano, R. (1062) 157)

Circumsporozoite protein; Lipid A; Liposome; Macrophage; Phagocytosis; Electron microscopy; Liposomal malaria antigen (Verma, J.N. (1066) 229)

Immunogold labeling
Chlorosome; Electron microscopy; (*Cf. aurantiacus*, *Cb. limicola*, *P. aestuarii*) (Wullink, W. (1060) 97)

Immunohistochemical localization
Alkaline phosphatase; Isozyme analysis; Sugar chain, N-linked; Sugar chain, O-linked; (Human tissue); (Rabbit tissue) (Koyama, I. (1080) 165)

Immunohistochemistry
Androgen receptor; Synthetic peptide; Antibody; MAb performance; Diagnostic; (Human) (Zegers, N.D. (1073) 23)

Crystallin; Immunoassay (Kato, K. (1074) 201)

Crystallin; Immunoassay; Lens; (Spleen) (Kato, K. (1080) 173)

Immunoinhibition
Hepatic lipase; Enzyme activity; Synthesis; Maturation; Glycosylation; (Rat hepatocyte) (Verhoeven, A.J.M. (1086) 49)

Immunological challenge
Arachidonic acid metabolism; Ionophore A23187; Antigen; GC-MS; (Mast cell) (Nakamura, T. (1085) 191)

Immunological characterization
Metalloenzyme; Endopeptidase; Latent form; (mouse) (Flannery, A.V. (1079) 119)

Immunological recognition
Sodium ion/D-glucose cotransporter; D-Glucose cotransport; Brush-border membrane; Polyclonal antibody; (Pig kidney) (Gérardi-Laffin, C. (1063) 21)

Immunological relationship
Cystic fibrosis protein; Serum (Barthe, C. (1096) 175)

Immunology
Melanoma; Tumor-associated antigen; Autologous antibody; Serology (Vlock, D.R. (1080) 1)

Immunoprecipitation
Glutaminyl-tRNA synthetase; Aminoacyl-tRNA synthetase complex; (Human) (Schray, B. (1087) 226)

Immuno-flow cytometry; Mitochondrial protein; Cytochrome *c* oxidase; Mitochondrial myopathy (Van den Bogert, C. (1097) 87)

Immunoreactivity
ATPase; Vacuolar ATPase; Pyrophosphatase; Cold inactivation; Proton transport; (*A. acetabulum*) (Ikeda, M. (1070) 77)

Immunosuppression
β_2-Microglobulin; Fibroblast; Fibroblast growth factor; Superinducible protein (Davis, T.R. (1095) 145)

Impedance analysis
Cornea; Epithelium; Amphotericin B; Conductance; Capacitance; Cell coupling (Reinach, P.S. (1066) 115)

Sodium ion transport; Anion; Amiloride; (Toad urinary bladder) (Lewis, S.A. (1070) 99)

Inactivation
Cardiac sodium channel; Sodium ion channel; Patch clamp; Fast inactivation; Proteolytic enzyme (Zilberter, Y.I. (1068) 77)

Calcium; Calmodulin; Microtubule-associated protein 2; Calmodulin-dependent protein kinase II; Phosphorylation (Katoh, T. (1091) 205)

Inclusion body
Cytochrome, *c*-type; Gene expression; (*Escherichia coli*); (*Rhodopseudomonas viridis*) (Grisshammer, R. (1088) 183)

Incorporation
Δ^5-Desaturation; Dihomo-γ-linolenic acid ($20:3(n-6)$); Arachidonic acid ($20:4(n-6)$); Rat liver microsome (Blond, J.P. (1084) 255)

Desaturation; Microsomal lipid; Lipid; Age; (Blackcurrant seed oil) (Ulmann, L. (1086) 230)

(Indanyloxy)acetic acid derivative
Chloride transport; Anthranilic acid derivative; Membrane vesicle; Channel blocker; (Bovine kidney cortex); (Rabbit ileum brush border) (Pope, A.J. (1067) 51)

Indirect immunoperoxidase staining
Fibronectin; Lens transparency; Cataract formation; Plasma membrane; Structural protein; (Human lens) (Babizhayev, M.A. (1096) 139)

Indomethacin
Rough endoplasmic reticulum; Polyunsaturated free fatty acid; Membrane fusion; GTP; CTP; NADPH (Lavoie, C. (1070) 274)

Cytosolic protein; Bile acid transport; 3α-Hydroxysteroid dehydrogenase; (Rat hepatocyte) (Takikawa, H. (1084) 247)

Lipocyte; Myofibroblast; Ito-cell; Lipid synthesis; Insulin (Guaragna, R.M. (1085) 29)

Induction
Cobalt; Protoporphyrin; Heme oxygenase (Smith, T.J. (1073) 221)

Expression; Methotrexate; Murine hybridoma; Plasminogen activator (Lo, K.-M. (1088) 217)

Infected erythrocyte
Rubidium-86 transport; (*P. falciparum*); (Human erythrocyte) (Kirk, K. (1061) 305)

Infectious bovine rhinotracheitis virus
Glycoprotein H; BHV-1 (Meyer, A.L. (1090) 267)

Inflammation
Cyclooxygenase; Transcriptional regulation; Dexamethasone; Renal function; Parturition; Ovulation; (3T3 fibroblast); (HL-60); (U937); (Endothelial cell); (MC3T3-E1 cell) (DeWitt, D.L. (1083) 121)

Influenza virus
Sialidase; Glycohydrolase; Calcium activation (Chong, A.K.J. (1077) 65)

Influenza virus hemagglutinin
Hemagglutinin; Fusion peptide; Lipid monolayer; Surface activity; Membrane fusion (Burger, K.N.J. (1065) 121)

Infrared
Lipid oxidation; Sphingomyelin; *tert*-Butyl hydroperoxide; Lipid bilayer; Conjugated diene; NMR, ^{1}H-; Fluorescence (Lamba, O.P. (1081) 181)

Infrared spectroscopy
Dimethyl sulfoxide; Conformation; Protein denaturation (Jackson, M. (1078) 231)

Inhibition
p-Nitrophenylphosphatase; Calmodulin-binding domain; Calcium pump; (Human red cell) (Caride, A.J. (1069) 94)

Xanthine oxidase; Superoxide; Hypoxanthine; Xanthine; Uric acid (Rubbo, H. (1074) 386)

3-Hydroxy-3-methylglutaryl CoA reductase; Diallyl disulfide (Om Kumar, R.V. (1078) 219)

Butyrylcholinesterase; Tubocurarine; Stopped-flow; Conformation; Modeling (Stojan, J. (1079) 96)

Aldehyde dehydrogenase; Cholesta-3,5-dien-7-one; Oxysterol (Ryzlak, M.T. (1079) 203)

N-Acetylglucosaminidase; Affinity purification; Nojirimycin; 2-Acetamido; (Bovine) (Legler, G. (1080) 89)

Inhibition by substrate
Acetylcholinesterase; Enzyme-substrate inhibitor complex; Noncompetitive inhibition; Regulatory site (Cohen, S.G. (1076) 112)

Inhibitor
Lactate transport; Band 3; Stilbene disulfonate; Erythrocyte (Poole, R.C. (1070) 69)

Casein kinase; Halogenobenzimidazole; Halogenobenzotriazole; Naphthalene; Isoquinoline; (Maize seedling); (Plant) (Dobrowolska, G. (1080) 221)

Calpastatin; Calpain; CANP; Calcium; cDNA cloning (Ishida, S. (1088) 436)

Inhibitor sensitivity
Lactate transport; Sarcolemmal vesicle; Saturation kinetics; pH dependency; Transport capacity (Juel, C. (1065) 15)

Inhibitory guanine nucleotide-binding protein
Prostaglandin E_2 receptor; Renal medulla; (Dog) (Watanabe, T. (1074) 398)

Inhibitory site
Intrasteric control; Protein kinase; Phosphatase; Latent form (Kemp, B.E. (1094) 67)

Initial rate
Glucose transport; Integrated rate; Unidirectional efflux; Self exchange; (Human erythrocyte) (Gasbjerg, P.K. (1062) 83)

Initial reaction
Purine phosphoribosyltransferase; 'Burst' synthesis; (*Artemia*) (Montero, C. (1084) 149)

Initiation
In vitro replication; Cell-free system; Replication origin; Semiconservative replication; DNA replication (Pearson, C.E. (1090) 156)

Initiation factor
Encephalomyocarditis; RNA; Viral RNA; Ribosome binding; Picornavirus (Scheper, G.C. (1089) 220)

Initiation factor-2
Elongation factor 2; Microcystin; Okadaic acid; Protein phosphorylation; Protein synthesis (Redpath, N.T. (1093) 36)

Inorganic phosphate
ATPase, Na^+/K^+-; Enzyme conformation; Phosphorylation; Acetyl phosphate; (Pig kidney) (Berberián, G. (1063) 217)

Absolute quantification; ATP; Phosphocreatine; NMR, ^{31}P-; Spectroscopy, ^{31}P-NMR; (Rat thigh muscle) (De Bisschop, E. (1094) 147)

Inorganic pyrophosphatase
Tryptophan; (Thermophilic bacteria) (Kaneko, S.-i. (1077) 281)

Inositol hexakisphosphate
Neutrophil; Priming; Superoxide generation; Phagocytosis (Eggleton, P. (1094) 309)

Inositol lipid
Ether lipid; Hydroxyarchaeol; Archaebacterium; Serine lipid; (*M. barkeri*) (Nishihara, M. (1082) 211)

Inositol lipid hydrolysis
Phospholipase D; Mitogen; Second messenger; (Swiss 3T3 fibroblasts) (Cook, S.J. (1092) 265)

Inositol phosphate
Cell membrane potential; Potassium channel; Calcium, intracellular; Pertussis toxin; Phorbol ester (Lang, F. (1073) 600)

Cholecystokinin internalization; Biotin-streptavidin technology; Amylase secretion; Pancreatic acini; (Rat) (Winand, J. (1080) 181)

Bradykinin; Br-A23187; Cytosolic free calcium; Fibroblast (Huang, H.-M. (1091) 409)

Mac-1; Protein kinase C; Complement fragment C5a; (Monocyte) (Monk, P.N. (1092) 251)

Phospholipase A_2; Phospholipase C; HL60; Guanine nucleotide; *N*-Formylmethionylleucylphenylalanine (Nielson, C.P. (1095) 83)

Oxyntomodulin (19–37); Glucagon; Somatostatin release; Calcium ion; (RIN T3 cell) (Tani, T. (1095) 249)

Inositol 1,3,4,5-tetrakisphosphate
Receptor; (Rat cerebellar membrane) (Kimura, Y. (1069) 218)

Inositol transport
HL60 cell; Myeloid differentiation; Neutrophil (Baxter, M.A. (1091) 158)

***myo*-Inositol transport**
Intestine; Brush-border membrane; D-Glucose inhibition; Sodium dependence; (Rat) (Scalera, V. (1062) 187)

Inositol trisphosphate
Calcium ion release; Calcium ion oscillation; (Human fibroblast) (Peres, A. (1092) 89)

Prostacyclin; Phospholipase A_2; Phospholipase C (Kawaguchi, H. (1094) 161)

Inositol 1,4,5-trisphosphate
Receptor binding; Platelet membrane; (Human) (Hwang, S.-B. (1064) 351)

***Myo*-Inositol 1,4,5-trisphosphate**
Ionization state; Binding property (Schmitt, L. (1075) 139)

Insect antifreeze
Antifreeze protein; Cold tolerance; Thermal hysteresis protein (Wu, D.W. (1076) 416)

Insect flight
Lipoprotein turnover; Lipid metabolism; Lipophorin; Apolipoprotein; Diacylglycerol; (Insect) (Surholt, B. (1086) 15)

Insecticide
Lipid bilayer; Phase transition; Drug; Anesthetic; Density fluctuation; Interface (Jørgensen, K. (1067) 241)

In situ hybridization
Cytochrome *c* oxidase-negative; Mitochondrial myopathy; mtDNA deletion (Collins, S. (1097) 309)

Insoluble polymer
Cross-linked matrix; ϵ(γ-Glutamyl)lysine; (Human platelet) (Harsfalvi, J. (1073) 268)

Insulin
Glucose transport; Sodium ion/glucose cotransporter; Streptozotocin-induced diabetes; Phlorizin binding; Brush-border membrane vesicle; (Rat small intestine) (Fujii, Y. (1063) 90)

Dimyristoylphosphatidylcholine; Liposome; Lytic action; Monomyristoylphosphatidylcholine; Enthalpic change; Gel-liquid crystalline transition; Phase transition (Senisterra, G.A. (1064) 148)

Blood-brain barrier; Brain microvessel endothelial cell; Hexose uptake; 3-*O*-Methyl-D-glucose; Glucose transporter (Takakura, Y. (1070) 1)

FTIR; Despentapeptide insulin; Desoctapeptide insulin; Secondary structure (Wei, J. (1080) 29)

Fish oil; Hepatomegaly; Cholesterol; Triacylglycerol synthesis; Glucose-6-phosphate dehydrogenase; Malic enzyme; Diacylglycerol acyltransferase; (Rat liver) (Otto, D.A. (1082) 37)

Diabetes; Vanadate; Malic enzyme; Glucose-6-phosphate dehydrogenase (Pugazhenthi, S. (1083) 310)

Lipocyte; Myofibroblast; Ito-cell; Lipid synthesis; Indomethacin (Guaragna, R.M. (1085) 29)

rRNA; Nucleolin; Primary cultured hepatocyte; Glucocorticoid; EGF (Suzuki, N. (1092) 367)

Protein kinase C; Sarcolemma; Phorbol ester; Protein phosphorylation (Walaas, O. (1094) 92)

Fructose 2,6-bisphosphate; Glycolysis; Glucose; (Human hepatocyte) (López, M.P. (1094) 200)

Catecholamine; Calcium ion; Glucose transport; GLUT-4; (Rat heart) (Rattigan, S. (1094) 217)

Okadaic acid; Protein phosphatase; Hepatocyte (Agius, L. (1095) 243)

Insulin-like growth factor
IGF-II; Human gene; Gene structure; Promoter (Holthuizen, P. (1087) 341)

Insulin-like growth factor II (IGFII)
Multiple leader exon; Heterogeneous mRNA; Transcription; (Mouse) (Ikejiri, K. (1089) 77)

Insulin receptor
Basolateral endocytosis; Nonfiltering perfused kidney; Peritubular clearance; (Rat) (Sato, H. (1073) 442)

Insulin resistance
Atherosclerosis; Benfluorex; Diabetes; Hypercholesterolemia; Hypertriglyceridemia; Obesity; Triacylglycerol synthesis (Brindley, D.N. (1085) 119)

Insulin secretion
Islets of Langerhans; Cholinergic; Protein kinase C (Persaud, S.J. (1091) 120)

Priming; GLP-1 (7-36) amide; GIP; Cholecystokinin-8; Rat pancreas (Fehmann, H.-C. (1091) 356)

Islets of Langerhans; Glyceraldehyde; Protein kinase C; Phorbol ester; Translocation (Persaud, S.J. (1095) 183)

Insulin sensitivity
Obesity; Gold-thioglucose; Brown adipose tissue; Lipogenesis; Liver; White adipose (Blair, S.C. (1085) 385)

Integral membrane polypeptide
Peroxisome; Peroxisomal membrane; Monoclonal antibody; Clofibrate; (Rat liver) (Imanaka, T. (1062) 264)

Integrated rate
Glucose transport; Initial rate; Unidirectional efflux; Self exchange; (Human erythrocyte) (Gasbjerg, P.K. (1062) 83)

Interaction
Antiplatelet peptide; Fibrinogen receptor antagonist; Glycoprotein IIb-IIIa complex (Huang, T.-F. (1074) 144)

Interface
Lipid bilayer; Phase transition; Phase diagram; Molecular interaction; Drug; Anesthetic; Density fluctuation (Jørgensen, K. (1062) 227)

Lipid bilayer; Phase transition; Drug; Anesthetic; Insecticide; Density fluctuation (Jørgensen, K. (1067) 241)

Interface catalysis
Cloning; Site-directed mutagenesis; Recombinant DNA; Protein folding (Ernst, E.G. (1089) 331)

Interfacial tension
Sodium bis(2-ethylhexyl) phosphate; Binary system; Ternary system; Vesicle; Swollen micelle; Transmission electron microscopy; DSC (Nakache, E. (1074) 413)

Interfacial transport
Membrane transport; Octanol/water interface; Unstirred layer thickness; Liquid-liquid extraction (Miller, D.M. (1065) 69)

Membrane transport; Octanol/water interface; Unstirred layer thickness; Liquid-liquid extraction; Diffusion coefficient; Octanol/water partition coefficient (Miller, D.M. (1065) 75)

Interferon γ
Poly(ADP-ribosylation); Macrophage activitation; DNA strand break (Berton, G. (1091) 101)

Nitrite; Immune response; T cell regulation (Takagi, K. (1092) 15)

Interferon ω1
Gene sequence; Interferon ω1, recombinant; Glycosylation; Signal peptide; Recombinant CHO cell; (Human) (Adolf, G.R. (1089) 167)

Interferon ω1, recombinant
Interferon ω1; Gene sequence; Glycosylation; Signal peptide; Recombinant CHO cell; (Human) (Adolf, G.R. (1089) 167)

Interleukin-1
Tumor necrosis factor; Lipoprotein lipase mRNA; Cytokine; Lipoprotein lipase activity; (Rat heart cell) (Friedman, G. (1089) 83)

Tumor necrosis factor; Interleukin-6; C-Reactive protein; Serum amyloid A; (Human); (Hepatocyte) (Yap, S.H. (1091) 405)

Collagenase, type IV; Gelatinase; Tissue inhibitor; Metalloproteinase; Tumor necrosis factor α; (Rabbit); (Articular chondrocyte) (Lefebvre, V. (1094) 8)

Arachidonic acid metabolism; Peroxisomal disorder; Prostaglandin metabolism; Prostaglandin E_2; Lipid metabolism; (Human fibroblast) (Tiffany, C.W. (1096) 41)

Interleukin-1 receptor
Cell growth; Cell cycle; Immunoglobulin superfamily (Tominaga, S.-i. (1090) 1)

Interleukin-2
Molten globule; Fluorescence; Circular dichroism (Dryden, D. (1078) 94)

Lymphokine; DNA sequence; Polymerase chain reaction (Goodall, J.C. (1089) 257)

Ganglioside GM_1; Cholera toxin B subunit; Lymphocyte proliferation (Sharom, F.J. (1094) 35)

Interleukin-2 gene
Gene transfection; T cell; Calcium-inducible expression; (Human) (Gulino, A. (1087) 7)

Interleukin-6
Acute-phase response; mRNA half-life (Nesbitt, J.E. (1089) 88)

Tumor necrosis factor; Interleukin-1; C-Reactive protein; Serum amyloid A; (Human); (Hepatocyte) (Yap, S.H. (1091) 405)

Intermediate
Ribulose-1,5-bisphosphate carboxylase; Rubisco; Cobaltous ion; EPR; Optical absorption (Janson, K. (1080) 40)

Aminotriazole; Cholesterol; 4α-Methyl-5α-cholest-7-en-3β-ol; 4,4-Dimethyl-5α-cholest-8-en-3β-ol; Peroxisome (Hashimoto, F. (1086) 115)

Intermembrane transfer
Lipid transfer protein, non-specific; Sterol carrier protein 2; Lipid transfer; Membrane (Gadella Jr., T.W.J. (1070) 237)

Internalization
HDL; Endocytosis; Non-lysosomal compartment; Resecretion; Fluorescein; pH probe (Rahim, A.T.M.A. (1082) 195)

Intersystem crossing
Charge separation; Triplet formation; Radical pair recombination; (*H. chlorum*) (Kleinherenbrink, F.A.M. (1057) 346)

Intervertebral disc
Glycation; Collagen; Aging; Human (Hormel, S.E. (1078) 243)

Intestinal brush border
Heat-labile toxin; Binding site; Galactoprotein; Development; (*E. coli*) (Griffiths, S.L. (1075) 154)

Intestinal brush-border membrane
Urolithiasis; Pyridoxine deficiency; Oxalate binding; (Kinetic analysis) (Koul, H.K. (1064) 184)

Intestinal ischemia
Diamine oxidase; Histamine (Koshi, S. (1075) 231)

Intestinal nuclei
Vitamin D; Steroid hormone receptor; Vitamin D metabolite; Calcium; (Pig intestine) (Brown, T.A. (1073) 324)

Intestinal protein digestion
Casein phosphopeptide; Calcium phosphate precipitation; NMR, ^{31}P-; β-Casein (Sato, R. (1077) 413)

Intestinal transport
Purine metabolism; Absorption; Enterocyte; (Guinea pig) (Gross, C.J. (1073) 260)

Glutathione; Glutathione-*S*-conjugate; Detoxication; (Rabbit) (Vincenzini, M.T. (1073) 571)

Intestine
Brush-border membrane; *myo*-Inositol transport; D-Glucose inhibition; Sodium dependence; (Rat) (Scalera, V. (1062) 187)

Iron transport; Caco-2 (Alvarez-Hernandez, X. (1070) 205)

Sulfhydryl; Vitamin D; Brush-border membrane; Steroidal hormone; (Chicken) (Tolosa de Talamoni, N. (1094) 224)

Intestine, small
Phosphofructokinase; Regulation; Progesterone; Pregnancy; Lactation (Khoja, S.M. (1074) 357)

Intracellular binding
Vitamin B-12; Cobalamin; Uptake; Accumulation; Coenzyme (Watanabe, F. (1075) 36)

Intracellular calcium
Cholesterol/phosphatidylcholine liposome; Smooth muscle cell; ATPase, (Ca^{2+} + Mg^{2+}) (Zhou, Q. (1085) 1)

Thimerosal; Thymus lymphocyte; pH, intracellular; Fructose 2,6-bisphosphate (Martín, F. (1091) 110)

Intracellular calcium ion
Vitamin E; Macrophage; Prostaglandin E_2; Superoxide anion (Sakamoto, W. (1074) 251)

Intracellular cholesterol processing
Niemann-Pick disease type C; Phenotypic heterogeneity; Sphingomyelinase; I-cell disease; Lipid storage disorder; (Skin fibroblast culture) (Vanier, M.T. (1096) 328)

Intracellular cholesterol transport
Niemann-Pick disease type C; Skin fibroblast culture; Lipid storage disorder; (Human) (Argoff, C.E. (1096) 319)

Intracellular cyclic AMP
Aminophylline; Phospholipid; Phosphodiesterase; Lipid synthesis; (*M. gypseum*) (Bindra, A. (1081) 61)

Intracellular distribution
Coenzyme Q homolog; Rabbit liver; Growth (Matsura, T. (1083) 277)

Intracellular free calcium
pH, intracellular; Ion specific microelectrode; Weak acid; Weak base; (*Xenopus* egg) (Grandin, N. (1091) 242)

Intracellular potassium ion activity
Microelectrode; Transmembrane potential; Hyperosmotic stress; Transference number; Potassium, intracellular; Cell volume; (Mouse liver) (Wang, K. (1069) 187)

Intracellular transport
Fibroblast; Fibronectin; Chick embryo development (Botti, J. (1093) 13)

Intrafibrillar water
Collagen; Proteoglycan; Cartilage structure; Extrafibrillar water (Maroudas, A. (1073) 285)

Intralipid ™
Lipid emulsion; Vesicle; Parenteral nutrition (Rotenberg, M. (1086) 265)

Intramolecular disulfide bond
Subunit assembly; Cysteine; Sulfhydryl group; Taste-modifying protein (Igeta, H. (1079) 303)

Intramolecular electron transfer
Enkephalin; D-Ala^2-enkephalin; Energy calculation (Vesterman, B. (1079) 39)

Intramolecular reaction
Electron transfer; Lysozyme; Protein dynamics; (Hen egg-white) (Weinstein, M. (1076) 173)

Intrasteric control
Protein kinase; Phosphatase; Inhibitory site; Latent form (Kemp, B.E. (1094) 67)

Intrauterine growth retardation
Essential fatty acid; Phosphatidylcholine; Phosphatidylethanolamine; (Human placenta) (Percy, P. (1084) 173)

Intrinsic factor
Intrinsic factor receptor; Cobalamin; Radioisotopic assay; (Pig ileum) (Guéant, J.L. (1073) 614)

Intrinsic factor receptor
Intrinsic factor; Cobalamin; Radioisotopic assay; (Pig ileum) (Guéant, J.L. (1073) 614)

Intrinsic uncoupling
Proton conductance; Mitochondrion; (Yeast) (Ouhabi, R. (1060) 293)

Intron
Growth hormone; Genomic sequence; Exon; (Carp); (*C. carpio*) (Chiou, C.-S. (1087) 91)

Invasion
Calpain inhibitor; Erythrocyte; Proteinase inhibitor; (*P. falciparum*) (Olaya, P. (1096) 217)

Inverted duplication
Gene amplification model; Amplicon; Amplified oncogene (Fried, M. (1090) 143)

In vitro
TGF-β; TIMP; Fibroblast; Connective tissue breakdown (Wright, J.K. (1094) 207)

In vitro replication
Cell-free system; Replication origin; Semiconservative replication; Initiation; DNA replication (Pearson, C.E. (1090) 156)

In vitro system
Heat shock; Hsp68; Ischemia (Tuijl, M.J.M. (1091) 278)

Iodolabeled peptide
Peptide transport; Substrate specificity; Proton gradient; Electrogenicity; Brush-border vesicle; (Rat kidney) (Tiruppathi, C. (1069) 14)

Iodothyronine
N-Formylmethionylleucylphenylalanine; Chemotactic peptide receptor; Superoxide; (Human neutrophil) (Aoyagi, K. (1093) 223)

Ion channel
Gramicidin A; Photomodulation; Ion transport (Stankovic, C.J. (1061) 163)

Channel protein; Glycine receptor; (Rat) (Langosch, D. (1063) 36)

Surfactin; Conductance; Lipid bilayer; Selectivity; (*B. subtilis*) (Sheppard, J.D. (1064) 13)

Synthetic peptide; Peptide, basic; Planar bilayer; Antibacterial activity (Anzai, K. (1064) 256)

Alamethicin analog; Peptaibol; Lipid bilayer; Conductance (Molle, G. (1064) 365)

Calcium ion; Chloride; SF-9 cell; δ-Endotoxin; Fura-2; (*B. thuringiensis*) (Schwartz, J.-L. (1065) 250)

Gramicidin A; Lipid membrane; Radiation inactivation; Vitamin E (Barth, C. (1066) 54)

Photoactivable phospholipid; Planar bilayer membrane; Cyclic voltametry; Voltametry; Photopolymerization (Borle, F. (1066) 144)

cyclic GMP; Nitroprusside; Patch clamp; Renal cell (Marunaka, Y. (1070) 152)

Non-selective cation channel; Amiloride; Alveolar epithelium; Sodium channel (Orser, B.A. (1094) 19)

Sweat gland; Potassium; Cystic fibrosis; Rectification (Henderson, R.M. (1097) 219)

Ion channel reconstitution
Giant vesicle; Potassium ion channel; Sarcoplasmic reticulum; Freeze-thaw; Membrane fusion (Hirashima, N. (1067) 235)

Ion current
Amphotericin B; Pyranine; Drug delivery; Liposome (Peterson, R.P. (1064) 165)

Ion distribution
Dialyzed cell; Whole-cell recording; Sodium/potassium pump current; Sodium–calcium exchange current (Bielen, F.V. (1065) 269)

Ion exchange
Ion transport; Potassium ion transport; Potassium efflux; Potassium ion–proton exchange; (Yeast) (Peña, A. (1068) 237)

Ion exchanger
Membrane potential; Sodium chloride symport; Potassium chloride symport; Chloride conductance; (*R. pipiens*, stomach) (Schwartz, M. (1062) 113)

Ionic channel
Cholera toxin; Planar bilayer; Lipid membrane (Krasilnikov, O.V. (1067) 166)

Ionic diffusion ratio
Cuticle; Membrane potential; Cation exchange (Heredia, A. (1062) 239)

Ionic stabilization
Hemocyanin; Cation stabilization; Light scattering; Molecular weight; Subunit dissociation; Subunit contact; (*Y. limulata*) (Herskovits, T.T. (1076) 71)

Ionic strength
Cation transport; Erythrocyte; (Sheep) (Erdmann, A. (1061) 85)

Cation transport; Diamide; Glutathione; (Human erythrocyte) (Ihrig, I. (1069) 171)

K pathway; Taurine transport; Choline transport; Cell volume regulation; Trout erythrocyte; DIDS (Motais, R. (1075) 169)

Ionization state
Myo-Inositol 1,4,5-trisphosphate; Binding property (Schmitt, L. (1075) 139)

Raman spectroscopy; Chemical state; Methodology (Yue, K.T. (1078) 296)

Ionophore
Antibiotic; Polyene; Selectivity; Permeability; Channel (Bonilla-Marín, M. (1061) 65)

Nigericin; Tributyltin; Phloretin; Bilayer lipid membrane; Dipole potential (Antonenko, Y.N. (1070) 474)

Ionophore A23187
Brush-border membrane; Zinc binding; Zinc ion binding site; Cadmium; (Pig small intestine) (Tacnet, F. (1063) 51)

Chromaffin granule; Nigericin; Osmotic lysis; Catecholamine; Chromogranin A (Engel, J. (1064) 155)

Arachidonic acid metabolism; Immunological challenge; Antigen; GC-MS; (Mast cell) (Nakamura, T. (1085) 191)

Ion selectivity
Porin; Mitochondrion; Reconstitution; (*A. anguilla*) (De Pinto, V. (1061) 279)

Ion specific microelectrode
pH, intracellular; Intracellular free calcium; Weak acid; Weak base; (*Xenopus* egg) (Grandin, N. (1091) 242)

Ion transport
Ion channel; Gramicidin A; Photomodulation (Stankovic, C.J. (1061) 163)

Potassium ion transport; Potassium efflux; Potassium ion–proton exchange; Ion exchange; (Yeast) (Peña, A. (1068) 237)

ATPase, Na^+/K^+-; Reaction sequence; Oligomycin; Sodium ion; Potassium ion; Conformational change (Pratap, P.R. (1069) 288)

Proton transport; Liposome; Membrane; Temperature jump (Prabhananda, B.S. (1070) 481)

Iris-ciliary complex
Phosphorylation; Vitreous humor; Tissue culture; Growth inhibition (Banerjee, A. (1077) 56)

Iron
δ-Aminolevulinate synthase; Heme oxygenase; Glutethimide (Cable, E.E. (1080) 245)

Oxidized LDL; Copper; Lipid peroxidation; Phosphate (Kuzuya, M. (1084) 198)

Melanotransferrin; Transferrin; Melanoma cell (Richardson, D.R. (1091) 294)

Melanotransferrin; Transferrin; (Melanoma cell) (Richardson, D. (1093) 20)

Iron absorption
Iron(III); Basolateral membrane; (Mouse intestine) (Snape, S. (1074) 159)

Iron-binding domain
Arachidonic acid; Lipoxygenase; Non-heme iron (Matsuda, S. (1084) 202)

Iron deficiency
Erythrocyte; Hemolysis; Thalassemia; Spherocytosis; pH effect; Band 3 protein (Sauer, A. (1063) 203)

Iron(III)
Iron absorption; Basolateral membrane; (Mouse intestine) (Snape, S. (1074) 159)

Soybean leghemoglobin α; Oxidation; Reduction; Copper(II) (Bakan, D.A. (1079) 182)

Iron-quinone
EPR; Photosystem II; Reaction center; Halogenated 1,4-benzoquinone; Semiquinone; (Plant) (Hallahan, B.J. (1059) 181)

Iron-quinone complex
Photosystem II; Bicarbonate; EPR; Reaction center (Bowden, S.J. (1060) 89)

Iron storage
Bacterioferritin; Ferritin (Andrews, S.C. (1078) 111)

Iron-sulfur center
Photosystem I; Reaction center; Core protein; P700; (Cyanobacteria); Psa protein (*Synechococcus* sp. PCC 6301) (Li, N. (1059) 215)

Iron-sulfur centers F_A and F_B
Photosystem I; Reaction center; Core protein; P700; Iron-sulfur reconstitution; (*Synechococcus* sp. PCC 6301, *psaC* protein) (Mehari, T. (1056) 139)

Iron-sulfur cluster
NADH:ubiquinone reductase; Complex I; NAD(H)-binding site; FMN-binding site; (*Neurospora crassa*) (Preis, D. (1090) 133)

Iron-sulfur reconstitution
Photosystem I; Reaction center; Core protein; P700; Iron-sulfur centers F_A and F_B; (*Synechococcus* sp. PCC 6301, *psaC* protein) (Mehari, T. (1056) 139)

Iron transport
Intestine; Caco-2 (Alvarez-Hernandez, X. (1070) 205)

Heme metabolism; Fanconi syndrome; Tyrosinemia; Succinylacetone; (Rat renal tubule) (Wyss, P.A. (1070) 300)

Membrane transport; Active transport; Non transferrin-bound iron; Transferrin; Reticulocyte; (Rabbit) (Qian, Z.M. (1073) 456)

Iron uptake
Transferrin; Liver perfusion; Transferrin receptor; NADH–acceptor oxidoreductase (Goldenberg, H. (1067) 145)

Hepatocyte; Calcium; Transmembrane transport (Nilsen, T. (1095) 39)

Ischemia
Adenine nucleotide translocator; Adenine nucleotide; (Rat kidney) (Henke, W. (1056) 71)

Membrane fluidity; Lipid peroxidation; Superoxide dismutase; EPR (Phelan, A.M. (1067) 97)

Reperfusion; ATPase, Na^+/K^+-; ATP; Creatine phosphate; Sarcolemma; Calcium; (Dog) (Samouilidou, E.C. (1070) 343)

Heat shock; Hsp68; In vitro system (Tuijl, M.J.M. (1091) 278)

Cardiac structure; Function; Acidosis; Long-chain acylcarnitine; Carnitine palmitoylcoenzyme A transferase (Hülsmann, W.C. (1097) 263)

Ischemic-reperfusion injury
Fatty acid binding protein; H-FABP; Mepacrine; (Rat heart) (Das, D.K. (1073) 394)

Iscom
Quil A; Saponin; Vaccine (Kersten, G.F.A. (1062) 165)

Islet amyloid polypeptide
Amylin; IAPP gene; Type 2 diabetes mellitus; Diabetes mellitus; Gene structure; (Rat); (Human) (Van Mansfeld, A.D.M. (1087) 235)

Islet calcineurin
Islet phosphatase; Calmodulin-regulated phosphatase; Isolated islet (Gagliardino, J.J. (1091) 370)

Islet phosphatase
Islet calcineurin; Calmodulin-regulated phosphatase; Isolated islet (Gagliardino, J.J. (1091) 370)

Islets of Langerhans
Insulin secretion; Cholinergic; Protein kinase C (Persaud, S.J. (1091) 120)

Glyceraldehyde; Protein kinase C; Phorbol ester; Translocation; Insulin secretion (Persaud, S.J. (1095) 183)

Isoamylase gene
Nucleotide sequence; Gene expression; DNA sequence; (*P. amyloderamosa*) (Chen, J.H. (1087) 309)

Isoelectric focusing
Glucose transport; Isoelectric point; Membrane protein; Sialic acid; Two dimensional electrophoresis; (Human erythrocyte) (Englund, A.-K. (1065) 185)

Isoelectric point
Glucose transport; Isoelectric focusing; Membrane protein; Sialic acid; Two dimensional electrophoresis; (Human erythrocyte) (Englund, A.-K. (1065) 185)

Isoenzyme
Phosphofructokinase; Regulation; (Rat placenta) (Khoja, S:M. (1076) 61)

ATP sulfurylase; Enzyme purification; Enzyme localization; (*Euglena*) (Li, J. (1078) 68)

Creatine kinase; Mitochondrion; Gene expression; Creatine phosphate shuttle; Regulation (Payne, R.M. (1089) 352)

Calcium ion/membrane binding protein, 38 kDa; Lipocortin phosphorylation; Protein kinase C; Phospholipid-dependent calcium-independent protein kinase; (Granulocytes); (Pig) (Farkas, G. (1091) 81)

Isoform
ATPase, Na^+/K^+-; Electrophoresis; Sequence analysis; Monoclonal antibody (Cortas, N. (1070) 223)

Protein phosphatase; cDNA sequence; Amino acid sequence; Alternative splicing; (Human) (McPartlin, A.E. (1088) 308)

Isolated islet
Islet phosphatase; Islet calcineurin; Calmodulin-regulated phosphatase (Gagliardino, J.J. (1091) 370)

Isomer
trans Double bond; Conversion; Hydrogenation; Linoleic acid; Metabolism; (Mice) (Beyers, E.C. (1082) 275)

***cis / trans* Isomerization**
trans-Unsaturated fatty acid; Membrane fluidity; (Psychrophilic bacterium); (*Vibrio* sp.) (Okuyama, H. (1084) 13)

Isomorphic form
Estrogen sulphotransferase; Transferrin; (Bovine placenta) (Adams, J.B. (1076) 282)

Isoproterenol
Proto-oncogene; 8-BrcAMP; Salivary epithelial cell cycle (Yeh, C.-K. (1090) 173)

Isoquinoline
Casein kinase; Inhibitor; Halogenobenzimidazole; Halogenobenzotriazole; Naphthalene; (Maize seedling); (Plant) (Dobrowolska, G. (1080) 221)

Isotonic
HeLa cell; Potassium ion transport; Chloride transport; Regulatory volume decrease; Calcium ion (Ikehara, T. (1068) 87)

Isotope
Phospholipid; NMR spectroscopy; (Rat testis) (Van der Grond, J. (1074) 189)

Isozyme analysis
Alkaline phosphatase; Sugar chain, N-linked; Sugar chain, O-linked; Immunohistochemical localization; (Human tissue); (Rabbit tissue) (Koyama, I. (1080) 165)

Ito-cell
Lipocyte; Myofibroblast; Lipid synthesis; Indomethacin; Insulin (Guaragna, R.M. (1085) 29)

J

Jejunal vesicle
Brush-border membrane; Stabilization; Glucose transport; Aspartic acid transport; (Rabbit); (Rat) (Maenz, D.D. (1069) 250)

Juxtaposal modulatory site
Acetylcholinesterase; Quasi-equilibrium; Dissociation constant; Computer simulation (Salih, E. (1073) 183)

K

Kainate
Glutamate receptor; Glutathione; Feeding response; α-Aminoadipate; (*Hydra*) (Bellis, S.L. (1061) 89)

Kallikrein
Pancreas; Prokallikrein (Al-Hamidi, A.A.A. (1075) 88)

Proenkephalin; Enkephalin processing; HPLC (Mindroiu, T. (1076) 9)

Kallikrein-kinin system
Plasma prekallikrein; Bacterial proteinase; Pseudomonal infection; Pseudomonal elastase; Pseudomonal alkaline proteinase (Shibuya, Y. (1097) 23)

K562 cell
Bathophenanthroline disulfonate (BPS); Diferric transferrin; Ferricyanide; Ferrozine; Redox activity (Bérczi, A. (1073) 562)

Keratin
Glycoprotein; Hair; Cell membrane complex (Allen, A.K. (1074) 331)

α-Ketoacid dehydrogenase complex
Pyruvate dehydrogenase complex; α-Ketoglutarate dehydrogenase complex; Branched chain α-ketoacid dehydrogenase complex (Matuda, S. (1089) 1)

Ketogenesis
Norepinephrine; α_1-Adrenergic receptor; Oleate metabolism; Glucose release; cyclic AMP; (Rat hepatocyte) (Nomura, T. (1092) 94)

α-Ketoglutarate dehydrogenase complex
Glutamate dehydrogenase; NADPH; Kinetic mechanism (Srinivasan, R. (1073) 18)

α-Ketoacid dehydrogenase complex; Pyruvate dehydrogenase complex; Branched chain α-ketoacid dehydrogenase complex (Matuda, S. (1089) 1)

Ketone body synthesis
Triacylglycerol; Citric acid cycle; Fatty acid esterification; (Rat hepatocyte) (Henly, D.C. (1092) 277)

KEX2 proteinase
(Pro)phospholipase A_2; Secretion; Glycosylation; (Baker's yeast) (Bekkers, A.C.A.P.A. (1089) 345)

K-fgf proto-oncogene
Cell transformation; Metastasis; Gene amplification (Damen, J.E. (1097) 103)

Kidney
Calcium pump, isoform; ATPase; Brain artery; Liver; (Rabbit) (Spencer, G.G. (1063) 15)

Ceramide; Glucosylceramide; Glucosylceramide glucosidase; Ceramide glucosyltransferase inhibition; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; L-Cycloserine; Sphingolipid hydrolase; Sphingosine biosynthesis inhibition (Shukla, G.S. (1083) 101)

Endothelin; Receptor; Aorta; Heart; Cross-linking; (Bovine) (Bednar, D.L. (1092) 226)

Kinetic analysis
Progress curve; Experimental design; Enzyme kinetics; Michaelis-Menten kinetics (Duggleby, R.G. (1080) 231)

Kinetic mechanism
Glutamate dehydrogenase; NADPH; α-Ketoglutarate dehydrogenase complex (Srinivasan, R. (1073) 18)

Carbonyl reductase; Aldehyde dismutaion; Chloral hydrate; Chemical modification; (Guinea-pig lung) (Hara, A. (1075) 61)

Alkaline phosphatase; Bone; Phosphotransferase activity (Mueller, K. (1076) 308)

Enzyme kinetics; Chemical mechanism; pH profile; Chemical modification (Karsten, W.E. (1077) 209)

Apolipoprotein transfer; Unilamellar vesicle; Phospholipid vesicle (Ibdah, J.A. (1081) 220)

Kinetic model
Fluorescence decay; Energy transfer kinetics; Photosynthesis; Chlorophyll fluorescence; Exciton migration (Beauregard, M. (1060) 271)

Protein kinase C; Lipid regulation; Phosphatidylserine; Activation; Hill coefficient; Ligand trapping (Sandermann, Jr., H. (1069) 235)

Kinetic parameter
Alkaline phosphatase; Human neutrophil; Uric acid (Vergnes, H.A. (1076) 152)

Fixed-point method (Duggleby, R.G. (1078) 124)

Kinetic property
Dynamic microtubule; Microtubule; Microtubule dynamic instability (Martin, S.R. (1073) 555)

Kinetics
Cytochrome *d*; Trioxodinitrate; Nitrite ion; (*E. coli*) (Bonner, F.T. (1056) 133)

Glucose transport; Network thermodynamic computer simulation; (Human erythrocyte) (May, J.M. (1064) 1)

Carnitine carrier; Reconstitution; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1065) 231)

Sodium ion/glucose cotransport; Energetic coupling; Brush-border membrane; (Pig kidney) (Centelles, J.J. (1065) 239)

Erythrocyte ghost; Membrane resealing; EPR; (Human) (Kahana, E. (1066) 6)

Aspartic proteinase; Protein denaturation; (*E. parasitica*); (*M. miehei*) (Brown, E.D. (1076) 406)

24-Hydroxylase; Periodate assay; Vitamin D (Burgos-Trinidad, M. (1078) 226)

Ruminal fungus; Cellobiase (Li, X. (1080) 148)

Rhesus monkey; VLDL; LDL; Apo B; Saturated fat (Khosla, P. (1083) 46)

Kinetic salt effect
Chymotrypsin; Kinetic specificity; Collagenolysis; Amino acid sequence; (Shrimp) (Tsai, I.-H. (1080) 59)

Kinetic specificity
Chymotrypsin; Collagenolysis; Kinetic salt effect; Amino acid sequence; (Shrimp) (Tsai, I.-H. (1080) 59)

Kinetic studies
Ovomucoid; Egg-white trypsin inhibitor; Structural domain; Conformation; Equilibrium studies; Protein denaturation (Das, B.K. (1076) 343)

Kirromycin
EPR; Antibiotic binding; Elongation factor Tu; (*B. stearothermophilus*) (Kalbitzer, H.R. (1078) 133)

Koningic acid
Glyceraldehyde-3-phosphate dehydrogenase; Active site modification; (Rabbit muscle) (Sakai, K. (1077) 192)

K pathway
Taurine transport; Choline transport; Cell volume regulation; Ionic strength; Trout erythrocyte; DIDS (Motais, R. (1075) 169)

L

L1
Cell adhesion molecule; Immunoglobulin superfamily; cDNA cloning; (Human neuron) (Kobayashi, M. (1090) 238)

***lac* operon**
Operon; Gene regulation; DNA binding protein (Khoury, A.M. (1087) 55)

Lactate
Beta-cell; Depolarization; Cytosolic calcium; HIT-T15 cell; Cation permeability (Lynch, A.M. (1091) 141)

Chronic renal failure; Plasma; Urine; NMR; Betaine; Trimethylamine *N*-oxide; Ammonium ion (Bell, J.D. (1096) 101)

Lactate dehydrogenase
Cardiac metabolism; (Antarctic); (Icefish heart) (Feller, G. (1079) 343)

Lactate dehydrogenase gene
Cloning; Human; Gene expression; (*B. stearothermophilus*) (Barstow, D.A. (1087) 73)

Lactate transport
Sarcolemmal vesicle; Saturation kinetics; pH dependency; Inhibitor sensitivity; Transport capacity (Juel, C. (1065) 15)

Band 3; Stilbene disulfonate; Inhibitor; Erythrocyte (Poole, R.C. (1070) 69)

Lactation
Phosphofructokinase; Regulation; Progesterone; Intestine, small; Pregnancy (Khoja, S.M. (1074) 357)

Galactosyltransferase; Oligosaccharide; Tammar (Messer, M. (1077) 79)

Lactic acid bacterium
Aspartate; Racemase; Purification; N-terminal sequence (Okada, H. (1078) 377)

β-Lactoglobulin
Primary sequence; Lipocalin; Amino acid sequence; (Cat); (Horse) (Halliday, J.A. (1077) 25)

Trypsin hydrolysis; Conformation; (Bovine) (Chobert, J.-M. (1077) 31)

Modification; β-Carotene; Retinoid; Ligand binding (Dufour, E. (1079) 316)

Lactoperoxidase
Thiocyanate; Horseradish peroxidase (Modi, S. (1080) 45)

Lactose carrier
Aspartic acid 237; Lysine 358; Membrane transport; Cotransport (King, S.C. (1062) 177)

Lamellar body
Alveolar type II cell; Lung surfactant; Lysozyme; Oxidative injury; Ozone (Shelley, S.A. (1096) 338)

Lamellar structure
Dipalmitoylphosphatidylcholine; Neutron diffraction; Disjoining pressure (Tatulian, S.A. (1070) 143)

Langendorff perfusion
Fatty acid binding protein; Sandwich ELISA; Streptavidin-biotin system; (Rat heart) (Vork, M.M. (1075) 199)

Langmuir-Blodgett film
Energy transduction; Bacterial reaction center; Photosynthetic bacterium (Alegria, G. (1057) 239)

Bacterial reaction center; Photosynthetic bacterium; Chromatophore; Linear dichroism; (*Rps. viridis*) (Alegria, G. (1057) 258)

Lanosterol 14α-demethylase
Cytochrome *P*-450$_{14DM}$; Pig liver (Sono, H. (1078) 388)

Cytochrome *P*-450 substrate recognition; Lanosterol side chain; Dihydrolanosterol; Lanosterol derivative; (Yeast microsome) (Aoyama, Y. (1081) 262)

Lanosterol derivative
Cytochrome *P*-450 substrate recognition; Lanosterol side chain; Dihydrolanosterol; Lanosterol 14α-demethylase; (Yeast microsome) (Aoyama, Y. (1081) 262)

Lanosterol side chain
Cytochrome *P*-450 substrate recognition; Dihydrolanosterol; Lanosterol 14α-demethylase; Lanosterol derivative; (Yeast microsome) (Aoyama, Y. (1081) 262)

Lasalocid-A
Mitochondrion; Calcium ion release; Nigericin; (Liver); (Heart) (Antonio, R.V. (1056) 250)

Laser light scattering
Absorption coefficient; Glucose transporter; High performance molecular-sieve chromatography; Low-angle laser light scattering; Octyl glucoside; Phospholipid; (Human erythrocyte) (Lundahl, P. (1067) 177)

Latency
Peroxisome; Skin fibroblast; (Human) (Wolvetang, E.J. (1095) 122)

Latent form
Metalloenzyme; Endopeptidase; Immunological characterization; (mouse) (Flannery, A.V. (1079) 119)

Intrasteric control; Protein kinase; Phosphatase; Inhibitory site (Kemp, B.E. (1094) 67)

Lateral conductance
Lipid monolayer; Surface potential; Chaotropic ion (Morgan, H. (1062) 149)

Lateral diffusion coefficient
ATP synthesis; ATP synthase, F_1F_0-; ADP/ATP translocator; Mitochondrion; Oxidative phosphorylation; Proton transfer (Gupte, S.S. (1069) 131)

Lateral heterogeneity
Photosynthesis; Thylakoid stacking; Photosystem; Surface charge; Chlorophyll *a/b* protein (Chow, W.S. (1057) 69)

Lauric acid
Omega oxidation; Fatty acid oxidation; Cytochrome *P*-450; Alcohol dehydrogenase; Peroxisome; (Rat hepatocyte) (Christensen, E. (1081) 167)

LDL
Lipoprotein transport; Cholesterol transport; LDL receptor; Brain; (Hamster) (Malavolti, M. (1081) 106)

Lipoprotein clearance; Cholesterol; (Pigeon) (Reagan, Jr., J.W. (1081) 202)

Differentiation; LDL receptor; Cholesterol (Hayashi, K. (1082) 152)

Hypercholesterolemia; Cholesterol synthesis; Simvastatin; Pravastatin (Owens, D. (1082) 303)

Rhesus monkey; VLDL; Apo B; Kinetics; Saturated fat (Khosla, P. (1083) 46)

HDL receptor; Cholesterol efflux; (Human cell line EAhy 926) (Bernini, F. (1083) 94)

Hep G2; Chylomicron remnant; LDL receptor; Compactin; Mevalonolactone (Chen, Q. (1083) 173)

Native LDL; Acetylated LDL; Leukotriene B_4; (Human monocyte-macrophage) (Nigon, F. (1083) 230)

Lipid peroxidation; Atherosclerosis; Arachidonic acid; Linoleic acid; (Rabbit) (Wang, T. (1084) 129)

Reconstituted HDL; HDL subclass; Spontaneous phospholipid transfer; Non-denaturing gradient gel electrophoresis (Jonas, A. (1085) 71)

Lipophorin; Lipid transfer particle; Oocyte; (*M. sexta*); (Man); (Insect) (Liu, H. (1085) 112)

Non-esterified fatty acid; HDL; Cholesteryl ester; Cholesteryl ester transfer protein (Lagrost, L. (1085) 209)

Ganglioside; Flotation; Fluorescence; Affinity chromatography; (Human) (Mikhailenko, I.A. (1085) 299)

Cholesterol; Hydroxymethylglutaryl-CoA reductase; Acyl-CoA:cholesteryl acyltransferase; HDL; Cell growth; (Rat intestine); (IEC-6 cell) (Reimann, F.M. (1085) 315)

HDL; UVB radiation; Tryptophan photolysis; Lipid photoperoxidation; Metal ion (Salmon, S. (1086) 1)

Glycated polylysine-iron complex; Lipid peroxidation; Endocytosis; Macrophage; Antioxidant (Sakurai, T. (1086) 273)

Lipid peroxidation; Cytotoxicity; Cytoprotection; Antioxidant; Ultraviolet irradiation; (Human lymphoblast) (Negre-Salvayre, A. (1096) 291)

Platelet activation; Epinephrine; Atherosclerosis (Bochkov, V.N. (1097) 123)

LDL modification
Proteoglycan; Glycosaminoglycan; Apolipoprotein B polar region; Proteolysis; Thermal stability (Camejo, G. (1096) 253)

LDL, oxidized
Atherosclerosis; Lipid peroxidation; Cytotoxicity; Transition metal; (Bovine aortic endothelial cell) (Kuzuya, M. (1096) 155)

LDL(B/E) receptor
Fusion protein; λGT11 expression vector; Apolipoprotein E; Fibroblast (Ribeiro, A. (1087) 219)

LDL-proteoglycan complex
Macrophage metabolism; (Mouse peritoneal macrophage) (Vijayagopal, P. (1092) 291)

LDL receptor
Lipoprotein transport; LDL; Cholesterol transport; Brain; (Hamster) (Malavolti, M. (1081) 106)

Chylomicron; Lipoprotein remnant; Triacylglycerol metabolism; Cholesteryl ester metabolism; Plasma cholesterol; Lipoprotein lipase; WHHL; (Rabbit) (Mamo, J.C.L. (1081) 241)

VLDL remnant; Remnant receptor; Lipoprotein lipase; VLDL; (HepG2 cell line) (Mulder, M. (1081) 308)

Apolipoprotein E; VLDL; LDL receptor-related protein (Mokuno, H. (1082) 63)

Differentiation; LDL; Cholesterol (Hayashi, K. (1082) 152)

Hep G2; Chylomicron remnant; LDL; Compactin; Mevalonolactone (Chen, Q. (1083) 173)

Gene expression; Hyperlipidemia; Atherosclerosis; Apolipoprotein; Hypolipidemic drug; Probucol (Staels, B. (1085) 131)

Gene expression; Apolipoprotein B; Diet; Mouse strain (Srivastava, R.A.K. (1086) 29)

Apolipoprotein B; Apolipoprotein secretion; (Human liver); (Hepatoma cell line) (Fuki, I.V. (1086) 237)

Solution hybridization assay; Apolipoprotein B; Apolipoprotein A-I; Apolipoprotein A-IV; (Mouse organ) (Srivastava, R.A.K. (1090) 95)

Apolipoprotein B; Receptor binding domain; Hypercholesterolemia; Gene mutation; (Human fibroblast) (Dunning, A.M. (1096) 231)

LDL receptor activity
Fish oil; Lipoprotein; Plasma membrane composition; (Rat liver) (Tripodi, A. (1083) 298)

LDL receptor-related protein
Apolipoprotein E; VLDL; LDL receptor (Mokuno, H. (1082) 63)

Lead ion influx
Chromaffin cell; Fura-2; Calcium ion channel; Voltage dependence; Dihydropyridine sensitivity (Tomsig, J.L. (1069) 197)

Lead poisoning
δ-Aminolevulinic acid; Porphyria, acute intermittent; Reactive oxygen species; Oxygen; Mitochondrial damage; (Rat liver mitochondria) (Hermes-Lima, M. (1056) 57)

Lead toxicity
Hypertension; Calcium homeostasis; NMR, ^{19}F-; (Human platelet) (Dowd, T.L. (1092) 341)

Leakage
Erythrocyte membrane; Oxidative modification; Diamide; Electroporation; Colloid-osmotic lysis; Phloretin (Deuticke, B. (1067) 111)

Lecithin-cholesterol acetyltransferase
HDL; HDL metabolism; Plasma lipoprotein (Jonas, A. (1084) 205)

Lecithin-cholesterol acyltransferase
Apolipoprotein; Cross-linking; Cholesterol; Cholesteryl ester; Gradient gel electrophoresis (Bonomo, E.A. (1082) 265)

Hypercholesterolemia; Hyperphospholipidemia; Prematurity; (Newborn infant) (Jain, S.K. (1086) 225)

Lectin
Sperm; Antigen; Membrane antigen; Concanavalin A; Wheat germ agglutinin; Agglutinin; (Goat) (Sarkar, M. (1070) 198)

Agglutination; Deformability; Concanavalin A; Erythrocyte membrane; (Human erythrocyte) (Pestonjamasp, K.N. (1073) 341)

Chemical modification; NMR; Nuclear Overhauser effect; Mushroom; (*I. resinosum*) (Kawagishi, H. (1076) 179)

Protein crystallization; (Mushroom) (Nagata, Y. (1076) 187)

α-L-Fucose; Phorbol ester; Anion exchange (Engelmann, B. (1091) 261)

Lectin mRNA
Selective deadenylation; mRNA; Acute phase expression; (*Sarcophaga*) (Nanbu, R. (1088) 71)

Lectin-sugar binding
Oligosaccharide; Chain conformation; Amphiphilic surface; Hydrophobic bonding; Antigen–antibody interaction; Cell surface oligosaccharide (Sundari, C.S. (1065) 35)

Lens
Crystallin; Immunoassay; Immunohistochemistry; (Spleen) (Kato, K. (1080) 173)

MIP; MP70; Hereditary cataract RFLP; (Mouse) (Shiels, A. (1097) 81)

MIP; Hereditary cataract; Chimaera; Immunofluorescence; (Mouse) (Shiels, A. (1097) 318)

Lens transparency
Fibronectin; Indirect immunoperoxidase staining; Cataract formation; Plasma membrane; Structural protein; (Human lens) (Babizhayev, M.A. (1096) 139)

Lesch-Nyhan
Hypoxanthine-guanine phosphoribosyltransferase; Gout; Recombinant enzyme; Gene expression; Human erythrocyte (Free, M.L. (1087) 205)

Leucine transport
Reconstitution; Liposome; (Chang liver cell) (Mitsumoto, Y. (1061) 171)

Lipid–protein interaction; (*L. lactis*) (In 't Veld, G. (1065) 203)

L-Leucine transport
P-glycoprotein; ATP; Verapamil; Quinidine; Osmolarity (Horio, M. (1061) 106)

Leukemia cell
Cytochrome *b*-558; Differentiation; Phagocyte (Capeillere-Blandin, C. (1094) 55)

Leukemia differentiation
Vitamin D; 24-*epi*-1α,25-Dihydroxyvitamin D-2; 1α,25-Dihydroxyvitamin D-7; Calcium metabolism (Sato, F. (1091) 188)

Leukemic lymphocyte
Lymphocyte; Stimulated lymphocyte; Nuclear lipid; Squalene; Alkylglycerol (Alïau, S. (1085) 350)

Leukocyte
Cathepsin E; Erythrocyte (Yonezawa, S. (1073) 155)

Leukocyte proliferation
CD45; Cell surface protein; Protein tyrosine phosphatase (Trowbridge, I.S. (1095) 46)

Leukotriene
Enzyme immunoassay; Acetylcholinesterase; (*E. electricus*) (Antoine, C. (1075) 162)

RIA; ELISA; Monoclonal antibody; Macrophage (Reinke, M. (1081) 274)

Structure determination; 11,12-Dihydroxyicosatetraenoic acid; Arachidonic acid; (Human platelet) (Westlund, P. (1081) 301)

Lipoxygenase; Lipoxin; (Fish leukocyte) (Rowley, A.F. (1084) 303)

5-Lipoxygenase; Arachidonic acid; Pancreas; Acinar cell (Natsui, K. (1085) 241)

Leukotriene A_4
Hydrolase; Metalloenzyme (Wetterholm, A. (1080) 96)

Leukotriene B_4
Native LDL; Acetylated LDL; LDL; (Human monocyte-macrophage) (Nigon, F. (1083) 230)

Leukotriene B_4 synthesis
Arachidonic acid metabolism; Calcium ionophore A23187; Human neutrophil; Allergy; Ether-linked glycerophospholipid (Chabannes, B. (1093) 47)

Leukotriene C_4 synthetase
Retinoic acid; Peptide leukotriene; 5-Lipoxygenase; (Rat basophilic leukemia-1 cell) (Hamasaki, Y. (1082) 126)

Leupeptin
Endocytosis; Receptor (Tsuji, A. (1078) 85)

Leydig cell culture
Δ^5–3β-Hydroxysteroid dehydrogenase-isomerase activity; Percoll purification (Murono, E.P. (1091) 55)

LFA-1
Homotypic adhesion; Monocyte differentiation (Cabañas, C. (1092) 165)

LH
LHRH; Amplitude; Duration; FSH; Cell culture; Pituitary (Kellom, T.A. (1092) 101)

LHRH
Amplitude; Duration; LH; FSH; Cell culture; Pituitary (Kellom, T.A. (1092) 101)

Life-span
Electroinsertion; Erythrocyte; Biotinylation; Flow cytometry (Mouneimne, Y. (1066) 83)

Ligand binding
Cytochrome *c'*; Hemoprotein; Subunit dissociation (Kassner, R.J. (1058) 8)

Cytochrome *c* oxidase; Electron paramagnetic resonance; Cyanide; Formate; Halide; (Bovine heart) (Moody, A.J. (1059) 189)

Cytochrome *P*-450 (Ristau, O. (1078) 321)

β-Lactoglobulin; Modification; β-Carotene; Retinoid (Dufour, E. (1079) 316)

Ligand specificity
Antiestrogen; Antiestrogen-binding site; Oxygenated sterol (Lin, L. (1082) 177)

Ligand trapping
Protein kinase C; Lipid regulation; Phosphatidylserine; Activation; Kinetic model; Hill coefficient (Sandermann, Jr., H. (1069) 235)

Light chain deposition disease
Immunoglobulin; Amino acid sequence (Bellotti, V. (1097) 177)

Light excitation imbalance
Chlorophyll fluorescence; Photoactivity; Light harvesting complex; Light scattering; Membrane aggregation; (Thylakoid membrane); (Photosystem) (Braun, G. (1060) 303)

Light harvesting
Reaction center; Membrane energization; Photosystem II (Ehrenheim, A.M. (1059) 106)

Light-harvesting chlorophyll *a*/*b* protein complex II
Excitation energy transfer; Photosystem II; Fluorescence emission; Antenna model; (Spinach and barley thylakoids) (Jennings, R.C. (1060) 245)

Light-harvesting chlorophyll-protein complex
Δ^3-*trans*-Hexadecenoic acid; Thylakoid stacking; Excitation energy transfer; (*C. reinhardtii*) (Trémolières, A. (1059) 286)

Light harvesting complex
Photosynthesis; Pigment–protein interaction; Bacteriochlorophyll; Fourier transform Raman spectroscopy; (*Rb. sulfidophilus*) (Mäntele, W. (1057) 367)

Stark effect; Electric field effect; Antenna complex; Energy transfer (Gottfried, D.S. (1059) 63)

Chlorophyll fluorescence; Light excitation imbalance; Photoactivity; Light scattering; Membrane aggregation; (Thylakoid membrane); (Photosystem) (Braun, G. (1060) 303)

Amino acid sequence; Green photosynthetic bacterium (Højrup, P. (1077) 220)

Light microscopy
Colloidal gold; Liposome; Silver enhancement; (Mouse) (Huang, S.K. (1069) 117)

Light scattering
Chlorophyll fluorescence; Light excitation imbalance; Photoactivity; Light harvesting complex; Membrane aggregation; (Thylakoid membrane); (Photosystem) (Braun, G. (1060) 303)

Hemocyanin; Cation stabilization; Molecular weight; Subunit dissociation; Ionic stabilization; Subunit contact; (*Y. limulata*) (Herskovits, T.T. (1076) 71)

Hemoglobin S; Polymerization; Sickle cell (Gross, C.T. (1079) 153)

Light state transition
Photosynthesis; Photosystems I&II; Optoacoustic spectroscopy; Energy storage; (Cyanobacteria) (Mullineaux, C.W. (1060) 315)

Lignan
Phytoestrogen; Estrogen; Fatty acid; α-Fetoprotein (Garreau, B. (1094) 339)

Ligninase
Peroxidase; Cytochrome *c* peroxidase; Active site; Heme; Evolution; Structure prediction (Welinder, K.G. (1080) 215)

Lignin degradation
Veratryl alcohol oxidase; Basidiomycete; (*P. ostreatus*) (Sannia, G. (1073) 114)

Lignin peroxidase
Flow injection analysis; Immobilized enzyme (Fawer, M.S. (1076) 15)

Limited proteolysis
α-Amylase; Antibody; X-ray crystallography; (Porcine pancreas) (Desseaux, V. (1080) 237)

Lindane
Phospholipid; Cholesterol; Membrane fluidity; Brush-border membrane; Basolateral membrane; (Rat kidney) (Pérez-Albarsanz, M.A. (1066) 124)

Linear dichroism
Langmuir-Blodgett film; Bacterial reaction center; Photosynthetic bacterium; Chromatophore; (*Rps. viridis*) (Alegria, G. (1057) 258)

Multibilayer; Zeaxanthin; Violaxanthin; X-ray diffractometry (Gruszecki, W.I. (1069) 21)

Linear peptide
Bile acid transport; Renin inhibitor; (Liver cell) (Bertrams, A. (1091) 337)

Linear renin inhibiting peptide
Bile acid transport system; (Hepatocyte) (Bertrams, A.A. (1073) 213)

Line defect
Lipid monolayer; Phosphatidylcholine; Phospholipase A_2; Gel phase; Theoretical model; Computer simulation (Pink, D.A. (1065) 167)

Linoleic acid
Isomer; *trans* Double bond; Conversion; Hydrogenation; Metabolism; (Mice) (Beyers, E.C. (1082) 275)

Lipid peroxidation; Atherosclerosis; Arachidonic acid; LDL; (Rabbit) (Wang, T. (1084) 129)

Catalytic hydrogenation; Δ^{12}-Desaturase; Membrane fluidity; Microviscosity; Fatty acid hydrogenation; Microsomal membrane; (*C. lipolytica*) (Horváth, I. (1085) 126)

Linolenic acid
Fatty acid metabolism; Elongase (Chapkin, R.S. (1085) 365)

α-Linolenic acid
Lipoxygenase; Double dioxygenation; (Potato tuber) (Grechkin, A.N. (1081) 79)

α-Linolenic acid 13-hydroperoxide
Hydroperoxide dehydrase; Allene oxide, hydrolysis mechanism; 11-Hydroxy-12-oxo-9(*Z*),15(*Z*)-octadecadienoic acid, novel ketol; (Flax seed) (Grechkin, A.N. (1086) 317)

Lipase
Microemulsion-based gel; Cryoenzymology; Enantioselectivity (Rees, G.D. (1073) 493)

Organic solvent-soluble lipase; Thermostability; Enzymatic reactivity; Detergent (Tsuzuki, W. (1083) 201)

Procolipase; Colipase; Trypsin activation; Bile salt; Lipase binding (Larsson, A. (1083) 283)

Enzyme specificity; Bile salt dependence; Capelin oil; (Cod); (*Gadus morhua*); (Human) (Gjellesvik, D.R. (1086) 167)

Hepatic lipase; Cholesterol diet; Cholesteryl ester transfer protein; (Rabbit) (Warren, R.J. (1086) 354)

Psychrotrophic bacterium; DNA sequence; Antarctic bacterium (Feller, G. (1088) 323)

Lipase binding
Procolipase; Colipase; Trypsin activation; Lipase; Bile salt (Larsson, A. (1083) 283)

Lipase hydrolysis
Carbohydrate; Synthesis; (*C. rugosa*) (Sanchez-Montero, J.M. (1078) 345)

Lipid
Spermatozoon; Plasma membrane; Epididymis; Maturation; (Goat sperm) (Rana, A.P.S. (1061) 185)

Incorporation; Desaturation; Microsomal lipid; Age; (Blackcurrant seed oil) (Ulmann, L. (1086) 230)

Lipid A
Circumsporozoite protein; Immunogold electron microscopy; Liposome; Macrophage; Phagocytosis; Electron microscopy; Liposomal malaria antigen (Verma, J.N. (1066) 229)

Lipid–alginate interaction
Microencapsulated liposome system; Bilayer permeability; Pulsatile release; Phospholipid bilayer (Cohen, S. (1063) 95)

Lipid arrangement
Phospholipid vesicle; Fusion; Lipid packing; Membrane permeability; pH dependence (Massari, S. (1067) 131)

Lipid asymmetry
Phosphatidylserine; Red blood cell (Connor, J. (1066) 37)

Lipid bilayer
Membrane structure; Phosphatidylcholine; Small angle neutron scattering (Gordeliy, V.I. (1061) 39)

Sphingomyelin; Thermodynamics; X-ray diffraction; DSC (Maulik, P.R. (1062) 211)

Phase transition; Phase diagram; Molecular interaction; Drug; Anesthetic; Density fluctuation; Interface (Jørgensen, K. (1062) 227)

Filipin; Conductance; Cholesterol (Krawczyk, J. (1063) 60)

EPR; Spin label; Chain flexibility (Reboiras, M.D. (1063) 259)

Surfactin; Ion channel; Conductance; Selectivity; (*B. subtilis*) (Sheppard, J.D. (1064) 13)

Alamethicin analog; Peptaibol; Ion channel; Conductance (Molle, G. (1064) 365)

Phase transition; Drug; Anesthetic; Insecticide; Density fluctuation; Interface (Jørgensen, K. (1067) 241)

Oxygen diffusion; Oxygen concentration; Carotenoid; Spin label; EPR (Subczynski, W.K. (1068) 68)

Lipopolysaccharide; Phase transition; Liposome; Optical spectroscopy (Brandenburg, K. (1069) 1)

Membrane; Protein translocation; Gating; Second messenger; (Diphtheria toxin channel) (Kagan, B.L. (1069) 145)

Lipid oxidation; Sphingomyelin; *tert*-Butyl hydroperoxide; Conjugated diene; NMR, ^{1}H-; Infrared; Fluorescence (Lamba, O.P. (1081) 181)

Lipid bilayer membrane
Long-chain alcohol; Alkanol; Phase transition; Phospholipid vesicle; Anesthesia cut-off (Suezaki, Y. (1066) 225)

Lipid bilayer method
Potassium ion channel; Sarcoplasmic reticulum; Reconstituted lipid vesicle (Ide, T. (1067) 213)

Lipid biosynthesis
Platelet; Membrane fluidity; Megakaryocyte; (Rat) (Dalal, K.B. (1070) 253)

Lipid–cholesterol interaction
Model membrane; Transformed cell; Liposome; DSC (Kariel, N. (1062) 70)

Lipid composition
Phosphate transport; Hypothyroidism; Mitochondrion; (Rat liver) (Paradies, G. (1070) 180)

Plant lipid; Acyl carrier protein; Lipid synthesis (Ohlrogge, J.B. (1082) 1)

$n-3$ Polyunsaturated fatty acid; Synaptic vesicle; Plasma membrane; Membrane fluidity; Fluorescence polarization; (Rat brain) (Zérouga, M. (1086) 295)

Lipid content
Skeletal muscle sarcolemma; Hyperthyroidism; Phospholipid fatty acid composition; Fluorescence polarization; Membrane fluidity; Calcium pump; ATPase, Ca^{2+}-; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

Lipid emulsion
HDL; Transfer protein; Cholesteryl ester; Phosphatidylcholine; Retinyl ester; (Rat); (Rabbit) (Martins, I.J. (1081) 328)

Vesicle; Intralipid ™; Parenteral nutrition (Rotenberg, M. (1086) 265)

Lipid hydration
Polymorphism; Bilayer membrane; Phase transition (Cevc, G. (1062) 59)

Lipid lateral diffusion
Glucocorticoid; (CEM-C1 acute lymphoblastic cell); (CEM-C7 acute lymphoblastic cell) (Bulva, C.J. (1094) 134)

Lipid membrane
Ion channel; Gramicidin A; Radiation inactivation; Vitamin E (Barth, C. (1066) 54)

Cholera toxin; Ionic channel; Planar bilayer (Krasilnikov, O.V. (1067) 166)

NMR, ^{2}H-; 1-Hexanol; Partition coefficient (Fraser, D.M. (1069) 53)

Tachyplesin I; Permeability; Fluorescence; (*E. coli*) (Matsuzaki, K. (1070) 259)

Lipid metabolism
Lipoprotein turnover; Lipophorin; Apolipoprotein; Diacylglycerol; Insect flight; (Insect) (Surholt, B. (1086) 15)

Platelet activating factor; Tumor necrosis factor α; Liver lipogenesis; (Adrenalectomized rat) (Evans, R.D. (1086) 191)

Choline; Ethanolamine; NMR, ^{31}P-; NMR, ^{13}C-; T47D; Spheroid (Ronen, S.M. (1095) 5)

Arachidonic acid metabolism; Peroxisomal disorder; Prostaglandin metabolism; Interleukin-1; Prostaglandin E_2; (Human fibroblast) (Tiffany, C.W. (1096) 41)

Lipid monolayer
Surface potential; Lateral conductance; Chaotropic ion (Morgan, H. (1062) 149)

Influenza virus hemagglutinin; Hemagglutinin; Fusion peptide; Surface activity; Membrane fusion (Burger, K.N.J. (1065) 121)

Phosphatidylcholine; Phospholipase A_2; Gel phase; Line defect; Theoretical model; Computer simulation (Pink, D.A. (1065) 167)

Lipid order and mobility
Doxorubicin; Acidic phospholipid; Drug–membrane interaction; Fluorescence; NMR (De Wolf, F.A. (1096) 67)

Lipid oxidation
Sphingomyelin; *tert*-Butyl hydroperoxide; Lipid bilayer; Conjugated diene; NMR, ^{1}H-; Infrared; Fluorescence (Lamba, O.P. (1081) 181)

Lipid packing
Phospholipid vesicle; Fusion; Membrane permeability; pH dependence; Lipid arrangement (Massari, S. (1067) 131)

Lipid partition
Membrane lipid; Acyl-CoA; Metabolism; Free fatty acid; (Mouse sciatic nerve) (Juguelin, H. (1068) 41)

Lipid–peptide interaction
Amphipathic α-helical peptide; Tryptophan fluorescence; Liposome; α-Aminomyristic acid; Circular dichroism (Kato, T. (1063) 191)

Bilayer permeabilization; Melittin, formylated; Melittin, acetylated; Melittin, succinylated; Tryptophan modification (Stankowski, S. (1069) 77)

Phospholipid (McLean, L.R. (1086) 106)

Lipid peroxidation
Synaptosome; Pyrene fatty acid; Pyrene cerebroside sulfate; Membrane asymmetry (Viani, P. (1064) 24)

Membrane fluidity; Ischemia; Superoxide dismutase; EPR (Phelan, A.M. (1067) 97)

Peroxidative damage; Protein conformation; Fluorometry; *N*-(1-Pyrene)maleimide; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (1067) 159)

Chloroquine; Ferriprotoporphyrin IX; Antimalaria (Sugioka, Y. (1074) 19)

Merocyanine 540; Photosensitization; EPR; Membrane (Feix, J.B. (1075) 28)

Lipoprotein (a); Polyunsaturated fatty acid; Antioxidant; Neuraminidase-treated lipoprotein (a) (Sattler, W. (1081) 65)

Atherosclerosis; Arachidonic acid; LDL; Linoleic acid; (Rabbit) (Wang, T. (1084) 129)

Oxidized LDL; Iron; Copper; Phosphate (Kuzuya, M. (1084) 198)

DNA binding; Arachidonic acid; Vitamin E; Arachidonic acid metabolism (Zhang, J.-R. (1085) 159)

Glycated polylysine-iron complex; LDL; Endocytosis; Macrophage; Antioxidant (Sakurai, T. (1086) 273)

Oxygen radical; Protein thiol oxidation; DNA strand break; Poly(ADP-ribose) polymerase (Kirkland, J.B. (1092) 319)

LDL, oxidized; Atherosclerosis; Cytotoxicity; Transition metal; (Bovine aortic endothelial cell) (Kuzuya, M. (1096) 155)

LDL; Cytotoxicity; Cytoprotection; Antioxidant; Ultraviolet irradiation; (Human lymphoblast) (Negre-Salvayre, A. (1096) 291)

Lipid peroxy radical
α-Crystallin; Blue fluorescence; Cross-link; Dityrosine; Cataract (Kikugawa, K. (1096) 108)

Lipid phase behavior
Phospholipid; Phosphatidylethanolamine; X-ray diffraction (Sanderson, P.W. (1067) 43)

Lipid phase transition
Helical peptide; Tetraether lipid; Differential thermal analysis (Blöcher, D. (1065) 160)

Calcium ion–lipid interaction; Dimyristoylphosphatidylglycerol; Electric field effect; Phase diagram (Thürk, M. (1067) 153)

DSC; Fluorescence depolarization; Homoserine lipid; (*Chlamydomonas*) (Sato, N. (1082) 108)

Lipid photoperoxidation
HDL; LDL; UVB radiation; Tryptophan photolysis; Metal ion (Salmon, S. (1086) 1)

Lipid polymorphism
Ether phospholipid; Microscopy; Synchrotron radiation; X-ray diffraction; NMR, ^{31}P- (Lohner, K. (1061) 132)

Cryo-electron microscopy; Electron microscopy (Frederik, P.M. (1062) 133)

Lipid property
Thylakoid; Galactolipid; Bilayer; Photosynthesis (Webb, M.S. (1060) 133)

Lipid–protein interaction
Talin; Cytoskeleton; Lipid selectivity; (Platelet) (Heise, H. (1061) 121)

ATPase, Ca^{2+}-transport; Fluorescence energy transfer (Verbist, J. (1063) 1)

Leucine transport; (*L. lactis*) (In 't Veld, G. (1065) 203)

Plant virus; Virus; TMV; CCMV; Coat protein (Spruijt, R.B. (1065) 217)

Lipid / protein interface
ATPase, Ca^{2+}-; *n*-Alkanol; Spin label (Lopes, C.M.B. (1070) 467)

Lipid regulation
Protein kinase C; Phosphatidylserine; Activation; Kinetic model; Hill coefficient; Ligand trapping (Sandermann, Jr., H. (1069) 235)

Lipid rigidity
Low temperature; Temperature effect; Charge recombination; pH; Photosynthesis (Sebban, P. (1057) 109)

Lipid secretion
Probucol; Hepatocyte primary culture; Cholesterol; Phospholipid; Triacylglycerol (De La Vega, F.M. (1081) 293)

Lipid selectivity
Talin; Cytoskeleton; Lipid–protein interaction; (Platelet) (Heise, H. (1061) 121)

Lipid sorting
Monensin; Membrane biogenesis; Vesicular transport; Fatty acyl chain length (Bertho, P. (1070) 127)

Lipid storage body
Amphipathic protein; Oleosin; Apolipoprotein (Murphy, D.J. (1088) 86)

Lipid storage disorder
Niemann-Pick disease type C; Intracellular cholesterol transport; Skin fibroblast culture; (Human) (Argoff, C.E. (1096) 319)

Niemann-Pick disease type C; Phenotypic heterogeneity; Intracellular cholesterol processing; Sphingomyelinase; I-cell disease; (Skin fibroblast culture) (Vanier, M.T. (1096) 328)

Lipid structural order
Membrane structural dynamics; Membrane rigidity; Anthroyloxy fatty acid; Flow cytometry (Collins, J.M. (1067) 171)

Lipid synthesis
Aminophylline; Intracellular cyclic AMP; Phospholipid; Phosphodiesterase; (*M. gypseum*) (Bindra, A. (1081) 61)

Lipid composition; Plant lipid; Acyl carrier protein (Ohlrogge, J.B. (1082) 1)

Lipocyte; Myofibroblast; Ito-cell; Indomethacin; Insulin (Guaragna, R.M. (1085) 29)

Cell growth; FM3A mutant; G258; Oligosaccharide synthesis (Nishikawa, Y. (1091) 135)

Lipid transfer
Lipid transfer protein, non-specific; Sterol carrier protein 2; Intermembrane transfer; Membrane (Gadella Jr., T.W.J. (1070) 237)

Lipid transfer particle
Lipophorin; LDL; Oocyte; (*M. sexta*); (Man); (Insect) (Liu, H. (1085) 112)

Lipid transfer protein
Cholesteryl ester transfer protein; Apolipoprotein; Pyrene cholesteryl ester; Fluorescence; (Human plasma) (Milner, T.G. (1082) 71)

Reverse cholesterol transport; Hepatic cholesterol uptake; Lipoprotein; HepG2 cell (Francis, G.A. (1084) 159)

Lipid transfer protein, non-specific
Sterol carrier protein 2; Intermembrane transfer; Lipid transfer; Membrane (Gadella Jr., T.W.J. (1070) 237)

Lipid vesicle
Phase transition; Anesthesia mechanism; Alkanol; Alcohol (Tamura, K. (1066) 219)

Fluorocarbon; Freeze-fracture; Oxygen carrier; Phospholipid emulsion (Postel, M. (1086) 95)

Lipocalin
β-Lactoglobulin; Primary sequence; Amino acid sequence; (Cat); (Horse) (Halliday, J.A. (1077) 25)

Lipocortin phosphorylation
Calcium ion/membrane binding protein, 38 kDa; Protein kinase C; Isoenzyme; Phospholipid-dependent calcium-independent protein kinase; (Granulocytes); (Pig) (Farkas, G. (1091) 81)

Lipocyte
Myofibroblast; Ito-cell; Lipid synthesis; Indomethacin; Insulin (Guaragna, R.M. (1085) 29)

Lipogenesis
Obesity; Gold-thioglucose; Insulin sensitivity; Brown adipose tissue; Liver; White adipose (Blair, S.C. (1085) 385)

Lipogenic enzyme
mRNA quantity; Diurnal variation; (Rat liver) (Fukuda, H. (1086) 261)

Lipophorin
LDL; Lipid transfer particle; Oocyte; (*M. sexta*); (Man); (Insect) (Liu, H. (1085) 112)

Lipoprotein turnover; Lipid metabolism; Apolipoprotein; Diacylglycerol; Insect flight; (Insect) (Surholt, B. (1086) 15)

Lipopolysaccharide
Phase transition; Liposome; Lipid bilayer; Optical spectroscopy (Brandenburg, K. (1069) 1)

Cationic amino acid transport; Amino acid transport; Macrophage (Sato, H. (1069) 46)

Tumor necrosis factor; Untranslated region; mRNA; Gene transcription; (Macrophage) (Han, J. (1090) 22)

Endotoxin; Calcium ion; pH; Fura-2; BCECF; (Hepatocyte) (Portolés, M.T. (1092) 1)

Lipoprotein
Steroid hormone; HDL; Androstenediol; Dehydroepiandrosterone; Dihydrotesterone; Estradiol; Pregnenolone; Progesterone (Leszczynski, D.E. (1083) 18)

Fish oil; LDL receptor activity; Plasma membrane composition; (Rat liver) (Tripodi, A. (1083) 298)

Reverse cholesterol transport; Lipid transfer protein; Hepatic cholesterol uptake; HepG2 cell (Francis, G.A. (1084) 159)

Antioxidant; β-Carotene; Atherosclerosis; (Human macrophage) (Jialal, I. (1086) 134)

Diabetes; HMG-CoA reductase inhibitor; Cholesterol; Hyperlipidemia (Arbeeny, C.M. (1096) 238)

Chondroitin 6-sulfate; Apolipoprotein B-100; Atherosclerosis (Olsson, U. (1097) 37)

Lipoprotein (a)
Polyunsaturated fatty acid; Antioxidant; Lipid peroxidation; Neuraminidase-treated lipoprotein (a) (Sattler, W. (1081) 65)

Lipoprotein clearance
LDL; Cholesterol; (Pigeon) (Reagan, Jr., J.W. (1081) 202)

Lipoprotein lipase
Arachidonic acid; Chylomicron; Docosahexaenoic acid; Icosapentanoic acid; Hepatic lipase (Melin, T. (1075) 259)

Chylomicron; Lipoprotein remnant; Triacylglycerol metabolism; Cholesteryl ester metabolism; Plasma cholesterol; LDL receptor; WHHL; (Rabbit) (Mamo, J.C.L. (1081) 241)

VLDL remnant; Remnant receptor; LDL receptor; VLDL; (HepG2 cell line) (Mulder, M. (1081) 308)

Growth factor; mRNA; Heparin; (Rat mesenchymal heart cell) (Friedman, G. (1082) 27)

Lipoprotein lipase activity
Tumor necrosis factor; Lipoprotein lipase mRNA; Cytokine; Interleukin-1; (Rat heart cell) (Friedman, G. (1089) 83)

Lipoprotein lipase mRNA
Tumor necrosis factor; Cytokine; Interleukin-1; Lipoprotein lipase activity; (Rat heart cell) (Friedman, G. (1089) 83)

Lipoprotein metabolism
High affinity heparin-LDL complex; Cholesteryl ester accumulation; Heparin; (Mouse peritoneal macrophage) (Srinivasan, S.R. (1081) 188)

Apolipoprotein E; Apo E isoform; Apolipoprotein A-II; HDL; VLDL (Borghini, I. (1083) 139)

Apolipoprotein E; Transfection; (Chinese hamster ovary cell) (Shimano, H. (1086) 245)

Apolipoprotein E; Transgenic mouse; Metallothionein promotor (Shimano, H. (1090) 91)

Lipoprotein particle
Apolipoprotein B; Immunoaffinity chromatography (Bard, J.M. (1082) 170)

Lipoprotein remnant
Chylomicron; Triacylglycerol metabolism; Cholesteryl ester metabolism; Plasma cholesterol; LDL receptor; Lipoprotein lipase; WHHL; (Rabbit) (Mamo, J.C.L. (1081) 241)

Lipoprotein secretion
Apolipoprotein B accumulation; Albumin; Glucose; Oleic acid (Arrol, S. (1086) 72)

Simvastatin; Cholesterol metabolism; (Rat hepatocyte) (Ribeiro, A. (1086) 279)

Lipoprotein transport
LDL; Cholesterol transport; LDL receptor; Brain; (Hamster) (Malavolti, M. (1081) 106)

Lipoprotein turnover
Lipid metabolism; Lipophorin; Apolipoprotein; Diacylglycerol; Insect flight; (Insect) (Surholt, B. (1086) 15)

Liposomal malaria antigen
Circumsporozoite protein; Immunogold electron microscopy; Lipid A; Liposome; Macrophage; Phagocytosis; Electron microscopy (Verma, J.N. (1066) 229)

Liposome
Chimeric protein; Fusion protein; Cytochrome b_5; Hydrophobic domain; β-Galactosidase; Phosphatidylcholine (George, S.K. (1061) 26)

Macrophage; Bone marrow; Reticuloendothelial system; Ganglioside; Poly(ethylene glycol) (Allen, T.M. (1061) 56)

Reconstitution; Leucine transport; (Chang liver cell) (Mitsumoto, Y. (1061) 171)

Liposome extrusion; LUVET; Extrusion apparatus; Rapid freezing; Freeze-fracture (MacDonald, R.C. (1061) 297)

Odorant; Membrane potential; Membrane fluidity (Enomoto, S. (1062) 7)

Lipid–cholesterol interaction; Model membrane; Transformed cell; DSC (Kariel, N. (1062) 70)

Phase partitioning; Drug delivery; Prolonged liposomal half-life; Poly(ethylene glycol) (Senior, J. (1062) 77)

Dipalmitoylphosphatidylcholine; Ascorbate oxidase; Protein–lipid interaction; Freeze-fracture (Dini, L. (1062) 108)

Circulation time; Poly(ethylene glycol); Targeted drug delivery; Drug targeting; Ganglioside (Klibanov, A.L. (1062) 142)

Amphotericin B; Phase behavior (Hamilton, K.S. (1062) 220)

Staphylococcal α-toxin; Membrane permeabilization; Toxin oligomerisation; Adrenocortical Y1 cell; Platelet; Electron microscopy (Thelestam, M. (1062) 245)

Spectrin; Cytoskeleton; Phospholipid vesicle; Erythrocyte elasticity (Subbarao, N.K. (1063) 147)

Amphipathic α-helical peptide; Lipid–peptide interaction; Tryptophan fluorescence; α-Aminomyristic acid; Circular dichroism (Kato, T. (1063) 191)

Monensin; Membrane potential; Sodium ion/proton antiport (Nakazato, K. (1064) 103)

Membrane permeability; Microwave radiation; Fluorescence; 5(6)-Carboxyfluorescein (Saalman, E. (1064) 124)

Dimyristoylphosphatidylcholine; Insulin; Lytic action; Monomyristoylphosphatidylcholine; Enthalpic change; Gel-liquid crystalline transition; Phase transition (Senisterra, G.A. (1064) 148)

Amphotericin B; Pyranine; Ion current; Drug delivery (Peterson, R.P. (1064) 165)

Saccharide; Dipalmitoylphosphatidylcholine; Sugar binding; Sugar exclusion; DSC (Crowe, L.M. (1064) 267)

Porphyrin–liposome interaction; Hematoporphyrin; Protoporphyrin; Membrane; Fluorescence polarization; Fluorescence quenching (Ricchelli, F. (1065) 42)

Carnitine carrier; Reconstitution; Kinetics; Mitochondrion; (Rat liver) (Indiveri, C. (1065) 231)

Poly(ethylene glycol); Mononuclear phagocyte system; Phosphatidylethanolamine; Monosialoganglioside (Allen, T.M. (1066) 29)

Drug delivery system; Ganglioside; Splenic macrophage (Liu, D. (1066) 159)

Circumsporozoite protein; Immunogold electron microscopy; Lipid A; Macrophage; Phagocytosis; Electron microscopy; Liposomal malaria antigen (Verma, J.N. (1066) 229)

Fluorescence; Phospholipid exchange protein; (CHO cell) (Sleight, R.G. (1067) 259)

Pharmacokinetics; Reticuloendothelial system; Mononuclear phagocyte system; Poly(ethylene glycol); Monosialoganglioside (Allen, T.M. (1068) 133)

Lipopolysaccharide; Phase transition; Lipid bilayer; Optical spectroscopy (Brandenburg, K. (1069) 1)

Glycerol; Osmotic stress; Surface potential; Permeability; Merocyanine 540 (Biondi, A.C. (1069) 5)

Carnitine carrier; Reconstitution; Transport; Mitochondrion; (Rat liver) (Indiveri, C. (1069) 110)

Colloidal gold; Silver enhancement; Light microscopy; (Mouse) (Huang, S.K. (1069) 117)

Ricin B chain; Galactosyl binding site; Transfection; (Rat hepatoma cell) (Friede, M.H. (1069) 273)

Stearylamine; DOTMA; BisHOP (Senior, J.H. (1070) 173)

Stability; Blood circulation time; Pharmacokinetics; Brush formation (Lasic, D.D. (1070) 187)

Chromatography; Complement; Blood protein (Chonn, A. (1070) 215)

Prolonged circulation; Protein drug; Peptide drug; Drug delivery system; Ganglioside G_{M1}; Ricin (Maruyama, K. (1070) 246)

Carboxyacyl derivative; Cardiolipin; Proteoliposome; Covalent coupling; Chymotrypsin; Antibody (Niedermann, G. (1070) 401)

Pristane; Alkane; Dioleoylphosphatidylcholine; Plasmacytomagenesis; NMR; DSC (Gawrisch, K. (1070) 409)

Membrane fusion; Fusion process; Fusion lag; Clathrin (Maezawa, S. (1070) 429)

Myotoxin; Snake venom; Multilamellar liposome; Phospholipase A_2; (*Bothrops* species) (Díaz, C. (1070) 455)

Proton transport; Membrane; Temperature jump; Ion transport (Prabhananda, B.S. (1070) 481)

Polymerizable phospholipids; Uncorking; Phospholipase A_2 (Davies, D.E. (1084) 29)

Transfection; Gene replacement therapy; DNA (Hug, P. (1097) 1)

Liposome absorption
Phospholipid liposome; Liver perfusion; Liposome uptake; Blood/liposome interaction; (Rat liver) (Nicholas, A.R. (1074) 105)

Liposome aggregation
Lung surfactant secretion; Exocytosis; Liposome fusion; Membrane fusion (Chander, A. (1086) 157)

Liposome binding
Electroporation; Cell membrane (Chernomordik, L.V. (1070) 193)

Liposome extrusion
LUVET; Liposome; Extrusion apparatus; Rapid freezing; Freeze-fracture (MacDonald, R.C. (1061) 297)

Liposome formation
Encapsulation; Synthetic lipid (Assadullahi, T.P. (1083) 271)

Liposome fusion
Lung surfactant secretion; Exocytosis; Membrane fusion; Liposome aggregation (Chander, A. (1086) 157)

Liposome stability
Phospholipid liposome; Serum–liposome interaction; Photon correlation spectroscopy; Serum-induced glucose release; (Rat) (Jones, M.N. (1065) 145)

Liposome uptake
Phospholipid liposome; Liver perfusion; Blood/liposome interaction; Liposome absorption; (Rat liver) (Nicholas, A.R. (1074) 105)

Lipotaurine
Taurolipid biosynthesis; (*Tetrahymena*) (Kaya, K. (1084) 101)

Lipoxin
12-Lipoxygenase; Arachidonic acid; (Human platelet) (Hada, T. (1083) 89)

Lipoxygenase; Leukotriene; (Fish leukocyte) (Rowley, A.F. (1084) 303)

Lipoxygenase
α-Linolenic acid; Double dioxygenation; (Potato tuber) (Grechkin, A.N. (1081) 79)

Positional specificity; Reaction mechanism; Reticulocyte (Kühn, H. (1081) 129)

Arachidonic acid metabolism; Hydroxyicosatetraenoic acid; Chiral analysis; Phorbol ester; (Mouse skin) (Hughes, M.A. (1081) 347)

Hemin bleaching; Heme protein bleaching; Pigment cooxidation (Macías, P. (1082) 310)

Encapsulated substrate; Cyclodextrin; (Soybean) (Jyothirmayi, N. (1083) 193)

Arachidonic acid; Non-heme iron; Iron-binding domain (Matsuda, S. (1084) 202)

Lipoxin; Leukotriene; (Fish leukocyte) (Rowley, A.F. (1084) 303)

Calcium; Cytosol (Nichols, R.C. (1085) 77)

Human keratinocyte; Chloride transport; Anion exchange; Chloride ion channel (Mastrocola, T. (1097) 275)

5-Lipoxygenase
15-Lipoxygenase; Vitamin E; Hydroperoxyoctadecadienoic acid; Peroxidase; Xenobiotic oxidation (Cucurou, C. (1081) 99)

Retinoic acid; Leukotriene C_4 synthetase; Peptide leukotriene; (Rat basophilic leukemia-1 cell) (Hamasaki, Y. (1082) 126)

Human neutrophil; PAF; Phospholipase A_2; Acetyltransferase; Alkylacylglycerol (Bauldry, S.A. (1084) 178)

Arachidonic acid; Leukotriene; Pancreas; Acinar cell (Natsui, K. (1085) 241)

Sulfidopeptide-leucotriene; Arachidonic acid; 5-Hydroxyicosatetraenoic acid; Oxygen saturation; Mucosal blood flow; Gastric ulcer (Pasechnikov, V.D. (1097) 45)

12-Lipoxygenase
13-Hydroxyoctadecadienoic acid; (Rat basophilic leukemia ell) (Van der Donk, E.M.M. (1074) 443)

12-Hydroxyicosatetraenoic acid; 13-Hydroxyoctadecadienoic acid; Enzyme inactivation; Hydroperoxy fatty acid; (Rat basophilic leukemia cell) (Van der Donk, E.M.M. (1081) 135)

Lipoxin; Arachidonic acid; (Human platelet) (Hada, T. (1083) 89)

15-Lipoxygenase
5-Lipoxygenase; Vitamin E; Hydroperoxyoctadecadienoic acid; Peroxidase; Xenobiotic oxidation (Cucurou, C. (1081) 99)

Vitamin E; β-Carotene; Prostaglandin synthetase (Lomnitski, L. (1082) 101)

Lipoxygenase pathway
Hydroperoxide product; Plant enzyme; Enzyme pathway; Fatty acid hydroperoxide (Gardner, H.W. (1084) 221)

Liquid-liquid extraction
Membrane transport; Interfacial transport; Octanol/water interface; Unstirred layer thickness (Miller, D.M. (1065) 69)

Membrane transport; Interfacial transport; Octanol/water interface; Unstirred layer thickness; Diffusion coefficient; Octanol/water partition coefficient (Miller, D.M. (1065) 75)

Liquid membrane system
Steroid hormone transport; Serum protein carrier; Binding coefficient; Partition coefficient (Watanabe, S. (1073) 275)

Lithium ion
Sodium/potassium pump; (Human lymphocyte) (Jenkins, R.J. (1092) 138)

Lithocholate
Bile flow; Cholestasis; (Rat) (Takikawa, H. (1081) 39)

Littoral cell
Cholesterol; Cholesteryl linoleyl ether; Acetylated LDL; (Hamster); (Rat) (Stein, O. (1081) 238)

Liver
Calcium pump, isoform; ATPase; Brain artery; Kidney; (Rabbit) (Spencer, G.G. (1063) 15)

Liver plasma membrane; Membrane fluidity; (Human) (Wolters, H. (1069) 61)

Obesity; Gold-thioglucose; Insulin sensitivity; Brown adipose tissue; Lipogenesis; White adipose (Blair, S.C. (1085) 385)

Glutamine synthase; cDNA sequence; cDNA library; (Human) (Van den Hoff, M.J.B. (1090) 249)

Liver development
NMR, ^{1}H-; Betaine; Taurine; Phosphocholine; Glycerophosphorylcholine (Rafter, J.E.M. (1074) 263)

Liver injury
NMR, ^{1}H-; Magnetic resonance imaging; Carbon tetrachloride; (Rat) (Towner, R.A. (1096) 222)

Liver / islet glucose transporter
Diabetes mellitus, type 2; Restriction fragment length polymorphism; Racial difference (Li, S.-R. (1097) 293)

Liver lipogenesis
Platelet activating factor; Tumor necrosis factor α; Lipid metabolism; (Adrenalectomized rat) (Evans, R.D. (1086) 191)

Liver metabolism
Cytochrome *P*-450IIe1; Pyrazole; (Rat hepatocyte) (Dicker, E. (1073) 316)

Liver mitochondrion
Phospholipid; Lysophospholipid; Calcium ion transport; Phospholipase A_2; (Rat) (Rustenbeck, I. (1069) 99)

Liver perfusion
Transferrin; Iron uptake; Transferrin receptor; NADH–acceptor oxidoreductase (Goldenberg, H. (1067) 145)

Phospholipid liposome; Liposome uptake; Blood/liposome interaction; Liposome absorption; (Rat liver) (Nicholas, A.R. (1074) 105)

Liver plasma membrane
Liver; Membrane fluidity; (Human) (Wolters, H. (1069) 61)

Liver regeneration
Fluorouracil; Thymidylate synthase; Thymidine kinase; DNA synthesis; (Rat) (Tsukamoto, I. (1074) 52)

Poly(ADP-ribose) polymerase; Gene expression; Cell proliferation; DNA replication; DNA repair; Protein modification (Cesarone, C.F. (1087) 241)

Liver-specific gene expression
Uricase; Monoclonal antibody; Peroxisome; (Hepatocyte); (Rat liver) (Motojima, K. (1087) 316)

LMG protein
cis-Diamminedichloroplatinum (II); Chromatin structure; Nucleosome (Hayes, J. (1089) 377)

Local deformation
Echinocyte; Dielectrophoresis (Gass, G.V. (1093) 162)

Localization
Peroxisomal enzyme; Alkyldihydroxyacetone-phosphate synthase; Acyldihydroxyacetone; TLC; (Rat liver) (Hardeman, D. (1081) 285)

Location
Cytochrome *c*; Periplasmic space (Wood, P.M. (1058) 5)

Long-chain acylcarnitine
Cardiac structure; Function; Acidosis; Ischemia; Carnitine palmitoylcoenzyme A transferase (Hülsmann, W.C. (1097) 263)

Long-chain alcohol
Alkanol; Phase transition; Phospholipid vesicle; Anesthesia cut-off; Lipid bilayer membrane (Suezaki, Y. (1066) 225)

Long-chain base, branched
Ceramide digalactoside; Ceramide monohexoside; Hydroxy fatty acid; FABMS; (Sponge); (*H. japonica*) (Hayashi, A. (1083) 179)

Long lifetime tyrosinate fluorescence (LTF)
Fluorescence; Angiotension II analog; Membrane receptor (Turner, R.J. (1065) 21)

Low-angle laser light scattering
Absorption coefficient; Glucose transporter; High performance molecular-sieve chromatography; Laser light scattering; Octyl glucoside; Phospholipid; (Human erythrocyte) (Lundahl, P. (1067) 177)

Low molecular mass protein
Photosystem II; Q_A; Reconstitution; *psbL* gene product; L protein (Nagatsuka, T. (1057) 223)

Low temperature
Temperature effect; Lipid rigidity; Charge recombination; pH; Photosynthesis (Sebban, P. (1057) 109)

Low water system
Restriction enzyme; lambda DNA (Hanley, A.B. (1074) 40)

L protein
Photosystem II; Q_A; Reconstitution; Low molecular mass protein; *psbL* gene product (Nagatsuka, T. (1057) 223)

L-type calcium channel
Sodium ion/proton antiporter activity, in vivo; Calcium channel; β_2-Adrenoceptor; (Rat skeletal muscle) (Syme, P.D. (1093) 234)

Lucifer yellow
Cyanide; Horseradish peroxidase; Sucrose; ATP; Phosphate transport (Kempson, S.A. (1091) 324)

Luminescence
Electron transport; Oxygen-evolving complex; Photosystem II; Electric field effect; (Spinach chloroplast) (Vos, M.H. (1056) 27)

Luminol
Polymorphonuclear leukocyte; SH group; Amino group; Hypochlorous acid; (Human plasma) (Arnhold, J. (1097) 145)

Luminol chemiluminescence
Menadione; Hydrogen peroxide; Oxygen, active species; NADH: menadione oxidoreductase; Yeast cell (Yamashoji, S. (1059) 99)

Lung
Calcium ion dependence; Phospholipid binding protein; Phospholipase A_2; Monolayer (Tsao, F.H.C. (1081) 141)

Surfactant; Protein; Phospholipid; Pulmonary inhibition (Amirkhanian, J.D. (1096) 355)

Lung cell culture
Alveolar epithelium; Hexose transport; Sodium/phosphate cotransport; Sodium ion/alanine cotransport; (Rat) (Clerici, C. (1063) 27)

Lung cytosolic activator
Adenylate cyclase; Adenylate kinase (Nupenko, E.V. (1091) 213)

Lung maturation
Glycogenolytic enzyme; Gene expression; (Rabbit) (Newgard, C.B. (1090) 333)

Lung pressure-volume characteristics
Surfactant; Lung stability; Neutral lipid; Phospholipid; Respiratory distress syndrome; (Preterm rabbit) (Gorree, G.C.M. (1086) 209)

Lung stability
Surfactant; Lung pressure-volume characteristics; Neutral lipid; Phospholipid; Respiratory distress syndrome; (Preterm rabbit) (Gorree, G.C.M. (1086) 209)

Lung surfactant
Phospholipid; Glycerophospholipid; Diether phosphonolipid; Analog; Synthesis; Preparative HPLC; Surface activity; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

Alveolar type II cell; Lamellar body; Lysozyme; Oxidative injury; Ozone (Shelley, S.A. (1096) 338)

Lung surfactant secretion
Exocytosis; Liposome fusion; Membrane fusion; Liposome aggregation (Chander, A. (1086) 157)

LUV
Membrane fusion; Virus; Fusion peptide; Fusion protein; NMR, ^{31}P-; (Sendai virus); (Measles virus) (Yeagle, P.L. (1065) 49)

LUVET
Liposome extrusion; Liposome; Extrusion apparatus; Rapid freezing; Freeze-fracture (MacDonald, R.C. (1061) 297)

Lychnin
Asparin, 1 and 2; Bryodin-L; Colocin, 1 and 2; Mapalmin; PAP-R; Ribosome-inactivating protein; RNA *N*-glycosidase (Bolognesi, A. (1087) 293)

Lymphatic drainage
Bile acid synthesis; Bile acid malabsorption; Dietary cholesterol (Björkhem, I. (1085) 329)

Lymphocyte
Stimulated lymphocyte; Nuclear lipid; Leukemic lymphocyte; Squalene; Alkylglycerol (Aliau, S. (1085) 350)

Glycolysis; Phorbol ester; Concanavalin A; Cell cycle (Marjanovic, S. (1087) 1)

Lymphocyte proliferation
Ganglioside GM_1; Interleukin-2; Cholera toxin B subunit (Sharom, F.J. (1094) 35)

Lymphocyte–virus interaction
HIV; T lymphocyte; Immune recognition; Receptor binding (Phillips, R.E. (1096) 10)

Lymphokine
Interleukin-2; DNA sequence; Polymerase chain reaction (Goodall, J.C. (1089) 257)

Lymphoproliferative malignancy
ATP; Deoxyadenosine triphosphate; 2′-Deoxycoformycin; Hemolytic anemia (Nakashima, K. (1094) 257)

***lyn* gene product**
Tyrosine protein kinase; Protein phosphorylation; Synthetic peptide; Cell regulation; Enzymology (Brunati, A.M. (1091) 123)

Lysine 358
Lactose carrier; Aspartic acid 237; Membrane transport; Cotransport (King, S.C. (1062) 177)

Lysine cluster
ATPase, Na^+/K^+-; Amino-terminus; Deletion mutant; (*R. catesbiana*) (Ohta, T. (1059) 157)

Lysine residue
4-Aminobutyrate aminotransferase; Catalytic activity (Kim, Y.T. (1077) 187)

Lysoganglioside
Ganglioside; Gangliosidosis; HPLC (Kobayashi, T. (1081) 159)

Lyso-PAF-acether : acetyl-CoA acetyltransferase
PAF-acether; Human polymorphonuclear neutrophils (Ninio, E. (1085) 136)

Lyso-PC : lyso-PS transacylase
Microsome; Acyl-CoA : lysolipid acyltransferase; Acyl-CoA acyltransferase; Phosphatidylcholine transacylase; Phospholipid metabolism; (Mouse sciatic nerve) (Cassagne, C. (1070) 119)

Lysophosphatidylcholine
Lysophospholipase C; Monocyte; Chemotaxis; Diacylglycerol (Quinn, M.T. (1082) 293)

Catabolism; Perfused heart; Lysophospholipase; Acyl CoA : lysoPC acyltransferase (Mock, T. (1084) 167)

Surfactant; ARDS; NRDS; Protein inhibition (Cockshutt, A.M. (1086) 63)

Lysophosphatidylinositol
Lysophosphatidylinositol kinase; Lysophosphatidylinositol monophosphate; Phosphatidylinositol; Monensin (Wheeler, J.J. (1086) 310)

Lysophosphatidylinositol kinase
Lysophosphatidylinositol; Lysophosphatidylinositol monophosphate; Phosphatidylinositol; Monensin (Wheeler, J.J. (1086) 310)

Lysophosphatidylinositol monophosphate
Lysophosphatidylinositol; Lysophosphatidylinositol kinase; Phosphatidylinositol; Monensin (Wheeler, J.J. (1086) 310)

Lysophospholipase
Lysophosphatidylcholine; Catabolism; Perfused heart; Acyl CoA : lysoPC acyltransferase (Mock, T. (1084) 167)

Lysophospholipase C
Lysophosphatidylcholine; Monocyte; Chemotaxis; Diacylglycerol (Quinn, M.T. (1082) 293)

Lysophospholipase-transacylase
Enzyme characterization; (*C. albicans*) (Takahashi, M. (1082) 161)

Lysophospholipid
Phospholipid; Calcium ion transport; Phospholipase A_2; Liver mitochondrion; (Rat) (Rustenbeck, I. (1069) 99)

Lysophospholipid formation
Collagen stimulation; Icosanoid dependency; (Human platelet) (Thomas, L.M. (1081) 92)

Lysosomal degradation
HDL; Chemical modification; Scavenger receptor (Miyazaki, A. (1082) 143)

Lysosomal enzyme
α-Fucosidase; Glycoprotein; Subcellular distribution; (Human skin fibroblast) (Johnson, K.F. (1073) 120)

Cathepsin; Fluorometry; Papain; Cysteine proteinase (Tchoupé, J.R. (1076) 149)

Lysosomal hydrolase
Glucocerebrosidase; Gaucher disease; Glucosylceramide lipidosis; Glycosphingolipidosis; Enzymic activity in situ (Van Weely, S. (1096) 301)

Lysosomal proteinase
Cathepsin; Differentiation; (Rat keratinocyte) (Tanabe, H. (1094) 281)

Lysosomal storage disease
β-Hexosaminidase isozyme; Tay-Sachs disease; Sandhoff disease (Mahuran, D.J. (1096) 87)

Lysozyme
Electron transfer; Intramolecular reaction; Protein dynamics; (Hen egg-white) (Weinstein, M. (1076) 173)

NMR, ^1H-; Calcium binding; (Equine) (Tsuge, H. (1078) 77)

Protonic conduction; Hydrogen bonding; Protein-bound water (Bone, S. (1078) 336)

Active site; Site-directed mutagenesis; (Human) (Muraki, M. (1079) 229)

Alveolar type II cell; Lamellar body; Lung surfactant; Oxidative injury; Ozone (Shelley, S.A. (1096) 338)

Lysozyme gene
Nucleic acid sequence; Genomic organization; (Chicken) (Nakano, T. (1090) 273)

Lytic action
Dimyristoylphosphatidylcholine; Liposome; Insulin; Monomyristoylphosphatidylcholine; Enthalpic change; Gel-liquid crystalline transition; Phase transition (Senisterra, G.A. (1064) 148)

M

MAb performance
Androgen receptor; Synthetic peptide; Antibody; Immunohistochemistry; Diagnostic; (Human) (Zegers, N.D. (1073) 23)

Mac-1
Inositol phosphate; Protein kinase C; Complement fragment C5a; (Monocyte) (Monk, P.N. (1092) 251)

α-Macroglobulin
Plasmin; Transforming growth factor β_1; Transforming growth factor β_2 (LaMarre, J. (1091) 197)

α_2-Macroglobulin
Pregnancy zone protein; Proteolytic enzyme; Stopped flow kinetics; Fluorescence change (Christensen, U. (1076) 91)

Macrophage regulation; Prostaglandin synthesis; Prostaglandin regulation (Uhing, R.J. (1093) 115)

Macropain
Protein degradation; Ubiquitin; ATP; Proteosome; Multicatalytic proteinase (DeMartino, G.N. (1073) 299)

Macrophage
Bone marrow; Liposome; Reticuloendothelial system; Ganglioside; Poly(ethylene glycol) (Allen, T.M. (1061) 56)

Circumsporozoite protein; Immunogold electron microscopy; Lipid A; Liposome; Phagocytosis; Electron microscopy; Liposomal malaria antigen (Verma, J.N. (1066) 229)

Cationic amino acid transport; Amino acid transport; Lipopolysaccharide (Sato, H. (1069) 46)

Vitamin E; Prostaglandin E_2; Superoxide anion; Intracellular calcium ion (Sakamoto, W. (1074) 251)

Leukotriene; RIA; ELISA; Monoclonal antibody (Reinke, M. (1081) 274)

Cholesteryl ester; Phospholipid; Arteriosclerosis (Stein, O. (1082) 33)

Ceramide; Phosphatidylcholine; Phosphatidylethanolamine; Sphingosine (Stein, Y. (1084) 87)

Endotoxin; Arachidonic acid; Thromboxane; Protein synthesis; Protein kinase C; (*S. enteritidis*) (Geisel, J. (1085) 15)

Glycated polylysine-iron complex; LDL; Lipid peroxidation; Endocytosis; Antioxidant (Sakurai, T. (1086) 273)

Hyaluronan-binding protein; Protein (Gustafson, S. (1091) 36)

Macrophage activitation
Interferon γ; Poly(ADP-ribosylation); DNA strand break (Berton, G. (1091) 101)

Macrophage metabolism
LDL-proteoglycan complex; (Mouse peritoneal macrophage) (Vijayagopal, P. (1092) 291)

Macrophage regulation
α_2-Macroglobulin; Prostaglandin synthesis; Prostaglandin regulation (Uhing, R.J. (1093) 115)

Magainin
Acidic lipid membrane; Binding isotherm; Electrostatic interaction; Membrane fluidity; Secondary structure (Matsuzaki, K. (1063) 162)

Magnesium
Calcium binding; Troponin; ATPase, myofibrillar; (Skeletal muscle, fast) (Morimoto, S. (1073) 336)

ATP depletion; Calcium; Cell damage; Enzyme release; Nickel; (Human fibroblast) (Kristensen, S.R. (1091) 285)

Magnesium ion
ATPase, Na^+/K^+-; Phosphatase, K^+-; Cation; Choline; Conformational change (Robinson, J.D. (1061) 267)

Actin polymerization; ATP; ADP; Thermodynamics; Calcium ion (Kinosian, H.J. (1077) 151)

Exocytosis; ATP; GTP binding-protein G_E; Protein kinase C; (Mast cell) (Lillie, T.H.W. (1094) 355)

Magnesium ion, intracellular
NMR; (Sheep red blood cell) (Fujise, H. (1094) 51)

Magnetic circular dichroism
Cyanogen bromide-modified myoglobin; Distal histidine; Pentacoordinate ferric heme; Myoglobin; (*Aplysia*) (Bracete, A.M. (1080) 264)

Magnetic resonance imaging
Liver injury; NMR, ^1H-; Carbon tetrachloride; (Rat) (Towner, R.A. (1096) 222)

Maillard reaction
Fructation; Pyrrole compound; Reductive methylation; (Amino group); (Aldol condensation) (Suárez, G. (1075) 12)

Malaria
Tryptophan-*N*-formylated gramicidin; Erythrocyte membrane; Phospholipid; Growth inhibition; Potassium ion leakage; (*P. falciparum*) (Moll, G.N. (1062) 206)

Parasite–host interaction; Host cell alteration; Phospholipid flip-flop; (Erythrocyte membrane); (*P. falciparum*) (Simões, A.P. (1063) 45)

Erythrocyte; Band 3 protein; Phosphorylation; Amino terminal extension (Jones, G.L. (1096) 33)

Ovalocytosis; (*P. falciparum*) (Husain-Chishti, A. (1096) 263)

Erythrocyte; Membrane; Band 3; (Human) (Jones, G.L. (1097) 71)

Malate
Compartmentalization; NMR, ^{13}C-; Phospho*enol*pyruvate carboxylase; (*Zea mays L.*) (Chang, K. (1092) 29)

Malate carrier
Reconstitution; Transport; Vacuole; (*Hordeum vulgare*) (Martinoia, E. (1062) 271)

Malate-oxaloacetate shuttle
Mitochondrion; Photosynthesis; Respiration; NADH dehydrogenase; NADPH-dehydrogenase; (Plant) (Krömer, S. (1057) 42)

Male specific
opa; (Adult); (*Drosophila*) (Grabowski, D.T. (1090) 115)

Malic enzyme
Cysteine; Peptide sequence; (Duck liver) (Satterlee, J. (1079) 247)

Fish oil; Hepatomegaly; Cholesterol; Triacylglycerol synthesis; Glucose-6-phosphate dehydrogenase; Diacylglycerol acyltransferase; Insulin; (Rat liver) (Otto, D.A. (1082) 37)

Diabetes; Vanadate; Insulin; Glucose-6-phosphate dehydrogenase (Pugazhenthi, S. (1083) 310)

Glutathione; Methionine; Buthionine sulfoximine (Ayala, A. (1084) 48)

Malignant hyperthermia
Calcium ion release; Caffeine; Halothane; Sarcoplasmic reticulum (Carrier, L. (1064) 175)

Membrane fluidity; Erythrocyte (Cooper, P. (1069) 151)

Malignant transformation
Diacylglycerol; Colonic cancer; Chemical carcinogenesis; Signal transduction (Wali, R.K. (1092) 119)

Malonyl-CoA
Carnitine palmitoyltransferase; Enzyme activation; (Rat liver) (Ghadiminejad, I. (1085) 377)

Malonyl-CoA-binding component
Carnitine palmitoyltransferase; Cholate; (Rat liver outer mitochondrial membrane) (Ghadiminejad, I. (1083) 166)

Maltooligosaccharide
α-Amylase; Transglycosylation; Site-directed mutagenesis; Subsite; (*Saccharomycopsis*) (Matsui, I. (1077) 416)

Maltoprin variant
Thiol reactivity; Cross-linking; Cysteine substitution; Membrane protein; Membrane topology; Affinity chromatography; (*E. coli*) (Francis, G. (1067) 89)

Mammalian DNA replication
DNA replication initiation; Replication origin; Autonomously replicating sequence; Early activated origin; Class of origin (Landry, S. (1088) 234)

Mammary tissue
Hormone-sensitive lipase; Cholesterol ester hydrolase; Protein phosphorylation (Small, C.A. (1082) 251)

Manganese
Oxygen evolution; Photoactivation; Photosystem II; Photosynthesis (Miyao, M. (1056) 47)

Calcium; Chloride; Photosystem II; Oxygen evolution; Polypeptide; EPR multiline signal (Yocum, C.F. (1059) 1)

Photosynthesis; Oxygen evolution; Absorption change; Hydroxylamine; S state; (*Synechococcus*) (Kretschmann, H. (1059) 208)

Oxygen evolution; Photoactivation; Photosynthesis; (Wheat) (Tamura, N. (1060) 51)

Oxygen-evolving system; S state; Absorption spectroscopy; Photosystem II center (Lavergne, J. (1060) 175)

1-Aminocyclopropane-1-carboxylic acid; Ethylene; Ethylene forming enzyme; Free radical; Hydroperoxide; Peroxidase (Acosta, M. (1077) 273)

Phosphorylation; Pancreas; Calmodulin; Elongation factor 2 (Knight, S.A.B. (1092) 196)

Manganese binding
Photosystem II; Oxygen evolution; Electron transfer kinetics; Flash absorption spectroscopy; $P680^+$ reduction kinetics (Hoganson, C.W. (1057) 399)

Manganese enzyme
L-Arginine amidinohydrolase; Arginase; Enzyme inactivation; Thermostable enzyme; (*B. caldovelox*) (Patchett, M.L. (1077) 291)

Superoxide dismutase; cDNA cloning; Amino acid sequence; Gene expression; (Human) (Church, S.L. (1087) 250)

Manganese-stabilizing 33 kDa protein
Cytochrome *b*559; Oxygen evolution; Photosystem II; Radiation inactivation; (Spinach) (Takahashi, M. (1059) 361)

Manganese superoxide dismutase
EPR; SQUID; (*T. thermophilus*) (Peterson, J. (1079) 161)

Mannose receptor
Cathepsin D; Peritoneal macrophage (Young, P.R. (1095) 1)

α-1,2-Mannosidase
Sugar chain processing; Pyridyl amino derivative; (*R. communis*) (Kimura, Y. (1075) 6)

β-Mannosidase
Polyclonal antibody; Protein complex; (Guinea pig) (McCabe, N.R. (1077) 133)

Mapalmin
Asparin, 1 and 2; Bryodin-L; Colocin, 1 and 2; Lychnin; PAP-R; Ribosome-inactivating protein; RNA *N*-glycosidase (Bolognesi, A. (1087) 293)

MAP kinase
Mitogen; S6 kinase; Phosphotyrosine (Sturgill, T.W. (1092) 350)

Marcus theory
Electron transfer; Redox potential; Cytochrome *c* (Cusanovich, M.A. (1058) 67)

Mass spectrometry
Cofactor F_{430}; EPR; (*M. thermoautotrophicum*) (Hamilton, C.L. (1074) 312)

Endoglucanase; Monoclonal antibody; Cellobiohydrolase; (*T. reesei*) (Luderer, M.E.H. (1076) 427)

Platelet activating factor; 1-*O*-Acyl-2-*O*-acetyl-*sn*-glycero-3-phosphocholine; Endothelial cell; Phospholipid molecular species; GC-MS (Clay, K.L. (1094) 43)

Mast cell
Fluorescence; Confocal microscopy; Imaging; Exocytosis; Hormone release (Kawasaki, Y. (1067) 71)

Bisoxonol; Oxonol; Exocytosis; Membrane potential; Sodium pump; Potassium (Bronner, C. (1070) 321)

Mastocytoma P-815 cell
Prostaglandin E_1 receptor; GTP-binding protein; Adenylate cyclase; Desensitization; Signal transduction (Hashimoto, H. (1095) 140)

Mastoparan X
Peptide–lipid interaction; Membrane potential; Tryptophan fluorescence; Mitochondrial presequence; Regulatory peptide (De Kroon, A.I.P.M. (1068) 111)

Mathematical model
Henle's loop; (Rabbit kidney) (Fernandes, P.L. (1064) 111)

Mating type
Cell-type-specific transcription; Pheromone response; Yeast; (*Saccharomyces cerevisiae*) (Dolan, J.W. (1088) 155)

Matrix Gla protein
Vitamin K; γ-Carboxyglutamic acid; Bone Gla protein (Engelke, J.A. (1078) 31)

Matrix protein
Dentin; Bone; Phosphoprotein; Hydroxyapatite (Fujisawa, R. (1075) 56)

Maturation
Spermatozoon; Plasma membrane; Epididymis; Lipid; (Goat sperm) (Rana, A.P.S. (1061) 185)

Hepatic lipase; Enzyme activity; Immunoinhibition; Synthesis; Glycosylation; (Rat hepatocyte) (Verhoeven, A.J.M. (1086) 49)

c-*myb*; Differentiation; Myelomonocyte; Granulocyte colony stimulation factor (Yanagisawa, H. (1088) 380)

McArdle's disease
Molecular heterogeneity; Phosphorylase (McConchie, S.M. (1096) 26)

M13 coat protein
Protein–lipid interaction; NMR, ^2H- (Sanders, J.C. (1066) 102)

Mechanism
Estradiol 17β-dehydrogenase; Metal ion (Murdock, G.L. (1076) 197)

Medium-chain acyl CoA dehydrogenase
Complementary DNA; (Rat liver) (Inagaki, T. (1077) 285)

Medulloblastoma
Glycosyltransferase; Xenograft; Ganglioside; Sphingolipid (Gottfries, J. (1081) 253)

Megakaryocyte
Lipid biosynthesis; Platelet; Membrane fluidity; (Rat) (Dalal, K.B. (1070) 253)

Melanin
Tyrosinase; Estradiol; 2-Hydroxyestradiol; Estradiol-2,3-quinone; Dopa; FTIR (Jacobsohn, M.K. (1073) 1)

Melanin biosynthesis
Melanogenesis; Tyrosinase; L-Dopa; Enzyme kinetics (Rodríguez-López, J.N. (1076) 379)

Melanogenesis
Tyrosinase; Peroxidase; 5,6-Dihydroxyindole; 5,6-Dihydroxyindole oligomer (D'Ischia, M. (1073) 423)

Melanin biosynthesis; Tyrosinase; L-Dopa; Enzyme kinetics (Rodríguez-López, J.N. (1076) 379)

Melanogenesis inhibition
Hydroquinone; Tyrosinase (Palumbo, A. (1073) 85)

Sulfhydryl compound; 1,3-Thiazolidine; Schiff base; Dihydro-1,4-benzothiazine (Napolitano, A. (1073) 416)

Melanoma
Phospholipase C; Human; Phosphatidylinositol (Perrella, F.W. (1076) 209)

Tumor-associated antigen; Autologous antibody; Immunology; Serology (Vlock, D.R. (1080) 1)

Melanoma antigen
Systemic lupus erythematosus; Amino acid homology; (Human) (Gersten, D.M. (1096) 20)

Melanoma cell
5′-Deoxy-5′-methylthioadenosine; Methionine; Serum; (Human); (Equine) (Liteplo, R.G. (1088) 365)

Melanotransferrin; Transferrin; Iron (Richardson, D.R. (1091) 294)

Melanotransferrin
Transferrin; Iron; Melanoma cell (Richardson, D.R. (1091) 294)

Transferrin; Iron; (Melanoma cell) (Richardson, D. (1093) 20)

Melittin
Triton X-100; Membrane pore; Divalent cation; Electrorotation; Circular dichroism; Energy transfer (Alder, G.M. (1061) 111)

[Ala-14]Melittin; Dimyristoylphosphatidylcholine; Vesicle to micelle transition; NMR, ^{2}H-; Freeze-fracture; Electron microscopy (Dempsey, C.E. (1061) 175)

Pore formation; Channel gating; Peptide–lipid interaction; Dioleoylphosphatidylcholine (Pawlak, M. (1062) 94)

Protein–lipid interaction; Stopped flow fluorometry (Sekharam, K.M. (1063) 171)

1-Palmitoyl-2-oleoylphosphatidylcholine vesicle; Electrostatic effect; Potential change; CD; NMR, ^{31}P-; Electrophoretic mobility (Beschiaschvili, G. (1068) 195)

Melittin, acetylated
Lipid–peptide interaction; Bilayer permeabilization; Melittin, formylated; Melittin, succinylated; Tryptophan modification (Stankowski, S. (1069) 77)

Melittin, formylated
Lipid–peptide interaction; Bilayer permeabilization; Melittin, acetylated; Melittin, succinylated; Tryptophan modification (Stankowski, S. (1069) 77)

Melittin, succinylated
Lipid–peptide interaction; Bilayer permeabilization; Melittin, formylated; Melittin, acetylated; Tryptophan modification (Stankowski, S. (1069) 77)

Membrane
Discrete water layer; X-ray diffraction (Murthy, N.S. (1062) 172)

Phospholipid bilayer; Molecular diffusion; Neutron scattering (Tabony, J. (1063) 67)

Porphyrin–liposome interaction; Hematoporphyrin; Protoporphyrin; Liposome; Fluorescence polarization; Fluorescence quenching (Ricchelli, F. (1065) 42)

Annexin; Membrane fusion; Neutrophil; Phospholipid vesicle (Oshry, L. (1066) 239)

Protein translocation; Gating; Second messenger; Lipid bilayer; (Diphtheria toxin channel) (Kagan, B.L. (1069) 145)

Lipid transfer protein, non-specific; Sterol carrier protein 2; Intermembrane transfer; Lipid transfer (Gadella Jr., T.W.J. (1070) 237)

Proton transport; Liposome; Temperature jump; Ion transport (Prabhananda, B.S. (1070) 481)

Erythrocyte; Shape (Elgsaeter, A. (1071) 273)

Merocyanine 540; Photosensitization; EPR; Lipid peroxidation (Feix, J.B. (1075) 28)

UVA light; Endogenous photosensitizer; Peroxidation; Fibroblast (Morlière, P. (1084) 261)

Fatty acid composition; Calcium, intracellular; (Leukemic T cell) (Chow, S.C. (1092) 358)

Malaria; Erythrocyte; Band 3; (Human) (Jones, G.L. (1097) 71)

Membrane aggregation
Chlorophyll fluorescence; Light excitation imbalance; Photoactivity; Light harvesting complex; Light scattering; (Thylakoid membrane); (Photosystem) (Braun, G. (1060) 303)

Membrane anchoring protein
Succinate dehydrogenase; Histidine modification; Diethyl pyrocarbonate; (Mitochondria) (Paudel, H.K. (1056) 159)

Membrane antigen
Sperm; Antigen; Lectin; Concanavalin A; Wheat germ agglutinin; Agglutinin; (Goat) (Sarkar, M. (1070) 198)

Membrane association
Cytochrome b_5; Fusion protein; β-Galactosidase; Plasma membrane; Fluorescence recovery (George, S.K. (1066) 131)

Plasma protein; Protein; Secretion rate; Microsome, rough; Saponin; (Rat liver) (Myrset, A.H. (1070) 229)

Membrane asymmetry
Synaptosome; Pyrene fatty acid; Pyrene cerebroside sulfate; Lipid peroxidation (Viani, P. (1064) 24)

Anionic phospholipid; Phospholipid; Surface potential; Yeast (Cerbón, J. (1067) 139)

Membrane binding
Basic peptide; Vesicle fusion; Sulfatide specificity (Stankowski, S. (1068) 61)

Membrane biogenesis
Monensin; Lipid sorting; Vesicular transport; Fatty acyl chain length (Bertho, P. (1070) 127)

Membrane bound enzyme
Fatty acid; Cytidylyltransferase; Phosphatidylcholine synthesis; Enzyme kinetics (Weinhold, P.A. (1086) 57)

Membrane-bound protein
Cytochrome *d* terminal oxidase; Gene expression; (*E. coli*) (Newton, G. (1089) 8)

Membrane conductance
Cultured renal cell line (A6); Specific membrane conductance; Voltage dependence; Microelectrode; Circuit analysis (Granitzer, M. (1069) 87)

Membrane current
Auxin; Coleoptile; Membrane potential; (*Zea mays*) (Felle, H. (1064) 199)

Membrane domain
Energy coupling, localized, delocalized; Proton gradient; Uncoupler; (Thylakoid) (Allnutt, F.C.T. (1059) 28)

Plasma membrane; Yeast; ATPase; Glycoprotein; Immunogold electron microscopy (Serrano, R. (1062) 157)

Cholesterol; Dehydroergosterol; Erythrocyte; Fluorescence quenching; Fluorescence photobleaching; (Human) (Schroeder, F. (1066) 183)

Membrane dynamics
NMR, ^{1}H-; Bilayer; Phosphatidylcholine; Cholesterol; Spin lattice relaxation time (Han, X. (1063) 129)

FTIR; Flexibility gradient; Cholesterol; Gramicidin A; Cytochrome *c* (Castresana, J. (1065) 29)

Membrane electrostatics
Calorimetry; Phospholipid; Phase diagram (Silvius, J.R. (1070) 51)

Membrane energization
Light harvesting; Reaction center; Photosystem II (Ehrenheim, A.M. (1059) 106)

Glucose transport; Halobacterium (Tawara, E. (1070) 293)

Membrane enzyme
ATPase, F_0F_1-; ATP; Purification; (*Z. mobilis*) (Reyes, L. (1068) 174)

Membrane fatty acid composition
Endothelial cell; Procoagulant activity; Polymorphonuclear leukocyte adherence; Icosanoid production; Arachidonic acid (Vossen, R.C.R.M. (1083) 243)

Membrane fluidity
Zeaxanthin; Xanthophyll cycle; Photosynthesis (Gruszecki, W.I. (1060) 310)

Sterol–phospholipid interaction; Diphenylhexatriene; Plasma membrane; Membrane organization; (Plant) (Cooke, D.T. (1061) 156)

Liposome; Odorant; Membrane potential (Enomoto, S. (1062) 7)

Magainin; Acidic lipid membrane; Binding isotherm; Electrostatic interaction; Secondary structure (Matsuzaki, K. (1063) 162)

Anti-inflammatory; Prostaglandin; Dexamethasone; (Rabbit cardiac muscle) (Gerritsen, M.E. (1065) 63)

Phospholipid; Cholesterol; Lindane; Brush-border membrane; Basolateral membrane; (Rat kidney) (Pérez-Albarsanz, M.A. (1066) 124)

Ischemia; Lipid peroxidation; Superoxide dismutase; EPR (Phelan, A.M. (1067) 97)

Skeletal muscle sarcolemma; Hyperthyroidism; Lipid content; Phospholipid fatty acid composition; Fluorescence polarization; Calcium pump; ATPase, Ca^{2+}-; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

Liver plasma membrane; Liver; (Human) (Wolters, H. (1069) 61)

Malignant hyperthermia; Erythrocyte (Cooper, P. (1069) 151)

Lipid biosynthesis; Platelet; Megakaryocyte; (Rat) (Dalal, K.B. (1070) 253)

cis / trans Isomerization; *trans*-Unsaturated fatty acid; (Psychrophilic bacterium); (*Vibrio* sp.) (Okuyama, H. (1084) 13)

Catalytic hydrogenation; Δ^{12}-Desaturase; Microviscosity; Fatty acid hydrogenation; Linoleic acid; Microsomal membrane; (*C. lipolytica*) (Horváth, I. (1085) 126)

$n-3$ Polyunsaturated fatty acid; Synaptic vesicle; Plasma membrane; Lipid composition; Fluorescence polarization; (Rat brain) (Zérouga, M. (1086) 295)

Membrane fluorescence
Optical recording; Optical fiber; Action potential; Voltage-sensitive dye; Frog heart (Bowmaster, T.A. (1091) 9)

Membrane fractionation
Photoinhibition; Photosystem II; Absorbance change; Fluorescence induction; Photosystem heterogeneity (Neale, P.J. (1056) 195)

Membrane function
Osmotic pressure; Electron transfer chain; Sugar transport; (*E. coli*) (Houssin, C. (1056) 76)

Membrane fusion
Virus; LUV; Fusion peptide; Fusion protein; NMR, ^{31}P-; (Sendai virus); (Measles virus) (Yeagle, P.L. (1065) 49)

Influenza virus hemagglutinin; Hemagglutinin; Fusion peptide; Lipid monolayer; Surface activity (Burger, K.N.J. (1065) 121)

Annexin; Neutrophil; Membrane; Phospholipid vesicle (Oshry, L. (1066) 239)

Giant vesicle; Ion channel reconstitution; Potassium ion channel; Sarcoplasmic reticulum; Freeze-thaw (Hirashima, N. (1067) 235)

Phospholipase C; Diacylglycerol; Non-bilayer phase; Fast freezing; Freeze-fracture (Burger, K.N.J. (1068) 249)

Rough endoplasmic reticulum; Polyunsaturated free fatty acid; GTP; CTP; NADPH; Indomethacin (Lavoie, C. (1070) 274)

Fusion process; Fusion lag; Liposome; Clathrin (Maezawa, S. (1070) 429)

Sendai virus; Fluorescence dequenching; (HL-60 cell); (CEM cell) (Pedroso de Lima, M.C. (1070) 446)

Lung surfactant secretion; Exocytosis; Liposome fusion; Liposome aggregation (Chander, A. (1086) 157)

Membrane lipid
Acyl-CoA; Metabolism; Lipid partition; Free fatty acid; (Mouse sciatic nerve) (Juguelin, H. (1068) 41)

Membrane lipid asymmetry
Trinitrobenzenesulfonic acid; Phosphatidylethanolamine; Phosphatidylserine; Phospholipid molecular species (Hullin, F. (1061) 15)

Membrane organization
Sterol–phospholipid interaction; Membrane fluidity; Diphenylhexatriene; Plasma membrane; (Plant) (Cooke, D.T. (1061) 156)

Membrane permeability
Microwave radiation; Liposome; Fluorescence; 5(6)-Carboxyfluorescein (Saalman, E. (1064) 124)

Phospholipid vesicle; Fusion; Lipid packing; pH dependence; Lipid arrangement (Massari, S. (1067) 131)

Mitochondrial membrane; Carboxyatractyloside; Calcium release (Chávez, E. (1070) 461)

Membrane permeabilization
Staphylococcal α-toxin; Toxin oligomerisation; Adrenocortical Y1 cell; Platelet; Liposome; Electron microscopy (Thelestam, M. (1062) 245)

Membrane phospholipid asymmetry
PAF; Transbilayer movement; Merocyanine 540 (Bratton, D.L. (1062) 24)

Membrane pore
Melittin; Triton X-100; Divalent cation; Electrorotation; Circular dichroism; Energy transfer (Alder, G.M. (1061) 111)

Membrane potential
Molecular probe; Energy transduction; (Mitochondria); (Membrane) (Tran, T.V. (1059) 265)

Neuroblastoma; Glucose; Sodium/potassium pump; (Mouse cell) (Yorek, M.A. (1061) 1)

Liposome; Odorant; Membrane fluidity (Enomoto, S. (1062) 7)

Model membrane; Cable equation; Glycerol monooleate; Gramicidin; Silicon; Micromechanics (Fromherz, P. (1062) 103)

Ion exchanger; Sodium chloride symport; Potassium chloride symport; Chloride conductance; (*R. pipiens*, stomach) (Schwartz, M. (1062) 113)

Cuticle; Cation exchange; Ionic diffusion ratio (Heredia, A. (1062) 239)

Monensin; Liposome; Sodium ion/proton antiport (Nakazato, K. (1064) 103)

Auxin; Coleoptile; Membrane current; (*Zea mays*) (Felle, H. (1064) 199)

Hyperpolarization; pH effect; Sodium–potassium ion exchange; Organic acid; Basolateral membrane potential; Proximal tubule; (*Necturus* kidney) (Granitzer, M. (1066) 111)

Peptide–lipid interaction; Tryptophan fluorescence; Mastoparan X; Mitochondrial presequence; Regulatory peptide (De Kroon, A.I.P.M. (1068) 111)

Neuron; Dye; Styryl dye; Fluorescence; Electrochromism; Solvatochromism (Fromherz, P. (1068) 149)

Microelectrode technique; Amphotericin B; Potassium ion conductance; (*R. catesbeiana* cornea) (Carrasquer, G. (1069) 181)

Calcium, intracellular; Cell injury; Photodynamic action; Photosensitization; Zinc phthalocyanine disulfonate (Specht, K.G. (1070) 60)

Bilayer lipid membrane; pH microelectrode; pH change; Protonophore (Antonenko, Y.N. (1070) 279)

Bisoxonol; Oxonol; Exocytosis; Mast cell; Sodium pump; Potassium (Bronner, C. (1070) 321)

Calcium homeostasis; Voltage-operated calcium ion channel; (Cultured human muscle cell) (Jacobs, A.E.M. (1096) 14)

Membrane protein
Cytochrome *b*; Circular dichroism; Sequence analysis; Protein modelling (Degli Esposti, M. (1056) 243)

Glucose transport; Isoelectric focusing; Isoelectric point; Sialic acid; Two dimensional electrophoresis; (Human erythrocyte) (Englund, A.-K. (1065) 185)

Erythrocyte; Band 7 protein; Monoclonal antibody; Epitope map (Hiebl-Dirschmied, C.M. (1065) 195)

Thiol reactivity; Cross-linking; Maltoprin variant; Cysteine substitution; Membrane topology; Affinity chromatography; (*E. coli*) (Francis, G. (1067) 89)

ATPase, Ca^{2+}-; Two-dimensional crystal; Propionate (Misra, M. (1077) 107)

Hyaluronan; Hyaluronic acid; Receptor; Endothelial cell; Polyclonal antibody; (Rat liver) (Forsberg, N. (1078) 12)

ATPase, Ca^{2+}-; Freeze-thaw; Denaturation; Amino acid (Lalonde, R.J. (1079) 128)

Erythrocyte; Band 7; cDNA sequence; Protein structure analysis (Hiebl-Dirschmied, C.M. (1090) 123)

Hematopoiesis; Phosphorylation site; Chromosomal translocation (Hromas, R. (1090) 241)

Membrane protein structure
Porin; Structure prediction; (*R. capsulatus*); (*E. coli*) (Welte, W. (1080) 271)

Membrane receptor
Fluorescence; Angiotension II analog; Long lifetime tyrosinate fluorescence (LTF) (Turner, R.J. (1065) 21)

Membrane-reorganization
Neonatal cardiomyocyte; Simulated ischemia (Musters, R.J.P. (1091) 270)

Membrane resealing
Erythrocyte ghost; Kinetics; EPR; (Human) (Kahana, E. (1066) 6)

Membrane rigidity
Membrane structural dynamics; Lipid structural order; Anthroyloxy fatty acid; Flow cytometry (Collins, J.M. (1067) 171)

Membrane skeleton
Vesicle formation; pH, intracellular; Temperature; Electron microscopy; (Humanerythrocyte) (Lelkes, G. (1065) 135)

Membrane structural dynamics
Membrane rigidity; Lipid structural order; Anthroyloxy fatty acid; Flow cytometry (Collins, J.M. (1067) 171)

Membrane structure
Lipid bilayer; Phosphatidylcholine; Small angle neutron scattering (Gordeliy, V.I. (1061) 39)

Membrane tolerance
Phosphatidylinositol; Ethanol; Fatty acid; NMR, ^1H-; Microsome; Phospholipid; (Rat liver) (Ellingson, J.S. (1062) 199)

Membrane topology
Cytochrome *P*-450; Chemical modification; Substrate binding site (Kunz, B.C. (1063) 226)

Cytochrome *P*-450; Microsome; (Rat liver) (Vergères, G. (1063) 235)

Probe; Nicotinic acetylcholine receptor; Acetylcholine receptor; Phosphatidylserine; Cyanogen bromide; (*T. californica*) (Blanton, M.P. (1067) 1)

Thiol reactivity; Cross-linking; Maltoprin variant; Cysteine substitution; Membrane protein; Affinity chromatography; (*E. coli*) (Francis, G. (1067) 89)

Membrane transport
Lactose carrier; Aspartic acid 237; Lysine 358; Cotransport (King, S.C. (1062) 177)

Interfacial transport; Octanol/water interface; Unstirred layer thickness; Liquid-liquid extraction (Miller, D.M. (1065) 69)

Interfacial transport; Octanol/water interface; Unstirred layer thickness; Liquid-liquid extraction; Diffusion coefficient; Octanol/water partition coefficient (Miller, D.M. (1065) 75)

Preimplantation blastocyst; Amino acid transport; Anionic amino acid (acidic amino acid) (Van Winkle, L.J. (1068) 231)

Iron transport; Active transport; Non transferrin-bound iron; Transferrin; Reticulocyte; (Rabbit) (Qian, Z.M. (1073) 456)

Calcium; Chlortetracycline; Neutrophil; Fluorescence response (Jacob, J. (1091) 317)

Membrane vesicle
Chloride transport; Anthranilic acid derivative; (Indanyloxy)acetic acid derivative; Channel blocker; (Bovine kidney cortex); (Rabbit ileum brush border) (Pope, A.J. (1067) 51)

Cotransport model; Rapid filtration technique; Computer simulation (Andrietti, F. (1067) 103)

Sodium ion channel; Amiloride sensitivity; Divalent cation; pH effect; (Pars rectum); (Rabbit proximal tubule) (Blokkebak-Poulsen, J. (1068) 125)

Menadione
Luminol chemiluminescence; Hydrogen peroxide; Oxygen, active species; NADH : menadione oxidoreductase; Yeast cell (Yamashoji, S. (1059) 99)

Mepacrine
Fatty acid binding protein; H-FABP; Ischemic-reperfusion injury; (Rat heart) (Das, D.K. (1073) 394)

Mercurial
Anion transport; Mitochondrion; *N*-Ethylmaleimide; Thiol (Beavis, A.D. (1063) 111)

Merocyanine 540
PAF; Transbilayer movement; Membrane phospholipid asymmetry (Bratton, D.L. (1062) 24)

Liposome; Glycerol; Osmotic stress; Surface potential; Permeability (Biondi, A.C. (1069) 5)

Photosensitization; EPR; Membrane; Lipid peroxidation (Feix, J.B. (1075) 28)

Metabolic rate depression
Protein kinase; Pyruvate kinase phosphorylation; Enzyme regulation; Anoxia (Brooks, S.P.J. (1073) 253)

Metabolic regulation
Theoretical model; Graph-theoretic analysis; Flux control coefficient (Sen, A.K. (1059) 293)

Metabolism
Uncoupler; Uncoupling activity; Oxidative phosphorylation; Fungicide (Guo, Z.-j. (1056) 89)

Membrane lipid; Acyl-CoA; Lipid partition; Free fatty acid; (Mouse sciatic nerve) (Juguelin, H. (1068) 41)

Isomer; *trans* Double bond; Conversion; Hydrogenation; Linoleic acid; (Mice) (Beyers, E.C. (1082) 275)

Ganglioside G_{M1}; Cholera toxin (Pacuszka, T. (1083) 153)

Metabolite concentration
NMR, ^{31}P-; pH, intracellular; Circadian rhythm; (*N. crassa*) (Pilatus, U. (1091) 349)

Metal binding peptide
Eukaryotic translation initiation factor 4D; Deoxyhypusyl hydroxylase; Peptide inhibitor design (Abbruzzese, A. (1077) 159)

Metal-catalyzed oxidation
Enzyme; *N*-Chloramine; Oxidative inactivation (Maier, K. (1079) 238)

Metal chelate
Affinity phase partitioning; Erythrocyte; Two-phase system (Goubran Botros, H. (1074) 69)

Metal chelate chromatography
Proteinase inhibitor; Chromogenic substrate; Affinity chromatography (Amarant, T. (1079) 214)

Metal ion
Estradiol 17β-dehydrogenase; Mechanism (Murdock, G.L. (1076) 197)

HDL; LDL; UVB radiation; Tryptophan photolysis; Lipid photoperoxidation (Salmon, S. (1086) 1)

Rifamycin SV; Oxygen free radical; Glutathione; Cell viability; Carbohydrate metabolism; (Rat hepatocyte) (Sáez, G.T. (1092) 325)

Metalloenzyme
Glycerol dehydrogenase; Cysteine; Amino acid sequence (Spencer, P. (1073) 386)

Monoclonal antibody; Dehydrogenase; (Human) (Ho, Y.-W. (1074) 419)

Endopeptidase; Latent form; Immunological characterization; (mouse) (Flannery, A.V. (1079) 119)

Leukotriene A_4; Hydrolase (Wetterholm, A. (1080) 96)

Metalloproteinase
Collagenase inhibitor; Tumor invasion; Zymography; (Epithelial cell) (Whitelock, J.M. (1073) 107)

Collagenase IV; TIMP-2 (Craig, F.M. (1074) 243)

Pseudomonal alkaline proteinase; Fibrinolysis; Plasmin; Pseudomonal infection (Shibuya, Y. (1077) 316)

Progelatinase metalloproteinase, 72 kDa; Activation; Enzyme activation; TIMP-2; (Human fibroblast) (Ward, R.V. (1079) 242)

Collagenase, type IV; Gelatinase; Tissue inhibitor; Interleukin-1; Tumor necrosis factor α; (Rabbit); (Articular chondrocyte) (Lefebvre, V. (1094) 8)

Metalloproteinase inhibitor
Collagenase; Angiogenic factor; Tissue inhibitor (McLaughlin, B. (1073) 295)

Metallothionein
Cadmium-binding protein; Mollusc; *N*-Acetylation; Protein structure; Tandem mass spectrometry (Roesijadi, G. (1074) 230)

cDNA; Polymerase chain reaction; Polymerase chain reaction; Tandem mass spectrometry; Cadmium; *N*-Acetylation; (Mollusc); (Oyster) (Unger, M.E. (1074) 371)

5-Azacytidine; Gene expression; Copper increase; Atomic absorption analysis; (Human Hep G2 cell) (Foster, R. (1088) 373)

mRNA half-life; Cadmium; Zinc; Spermatogenic cell; (Chicken); (Mouse) (De, S.K. (1090) 223)

Metallothionein II
Genomic structure; Promoter sequence; (Chinese hamster ovary cell) (Hung, S.-H. (1090) 255)

Metallothionein mRNA
Developmental variation; Heavy metal; (Mouse) (Mercer, J.F.B. (1097) 205)

Metallothionein promotor
Apolipoprotein E; Transgenic mouse; Lipoprotein metabolism (Shimano, H. (1090) 91)

Metal replacement
Rubredoxin; Nickel-substituted rubredoxin; Nickel coordination; Hydrogenase; (*D. vulgaris*) (Mus-Veteau, I. (1060) 159)

Metastasis
$\epsilon(\gamma$-Glutamyl)lysine; Programmed cell death; Tumor progression (Knight, C.R.L. (1096) 312)

K-fgf proto-oncogene; Cell transformation; Gene amplification (Damen, J.E. (1097) 103)

Methanogenesis
Methylenetetrahydromethanopterin dehydrogenase; 5,6,7,8-Tetrahydromethanopterin; Coenzyme F_{420}; Deazaflavin; (*M. thermoautotrophicum*) (Te Brömmelstroet, B.W. (1073) 77)

Methanol dehydrogenase
Cytochrome *c*; Periplasm; Denitrification; Nitric oxide binding (Ferguson, S.J. (1058) 17)

Methazolamide
Carbonic anhydrase; Urinary electrolyte; Renal acidification; (Mouse) (Brechue, W.F. (1066) 201)

Methionine
Malic enzyme; Glutathione; Buthionine sulfoximine (Ayala, A. (1084) 48)

5′-Deoxy-5′-methylthioadenosine; Melanoma cell; Serum; (Human); (Equine) (Liteplo, R.G. (1088) 365)

Methionine adenosyltransferase
S-Adenosylmethionine; Cell line; (Human) (Åkerman, K. (1097) 140)

Methionine synthesis
Posttranscriptional regulation; Homoserine-*O*-acetyltransferase; (*S. cerevisiae*) (Forlani, N. (1089) 47)

Methodology
Raman spectroscopy; Ionization state; Chemical state (Yue, K.T. (1078) 296)

Methotrexate
Expression; Induction; Murine hybridoma; Plasminogen activator (Lo, K.-M. (1088) 217)

4α-Methyl-5α-cholest-7-en-3β-ol
Aminotriazole; Cholesterol; 4,4-Dimethyl-5α-cholest-8-en-3β-ol; Intermediate; Peroxisome (Hashimoto, F. (1086) 115)

β-*N*-Methylaminoalanine
β-*N*-Methylaminopyruvate; *N*-Methylglycine; L-Amino acid oxidase; Neurotoxic amino acid (Hashmi, M. (1074) 36)

***N*-Methylaminoethylphosphonic acid**
Phosphonoglycosphingolipid; Phosphonocerebroside; Crustacean glycolipid; (*E. superba*) (Itonori, S. (1081) 321)

β-*N*-Methylaminopyruvate
β-*N*-Methylaminoalanine; *N*-Methylglycine; L-Amino acid oxidase; Neurotoxic amino acid (Hashmi, M. (1074) 36)

Methylation
Phosphatidylcholine; Catabolism; Phosphatidylethanolamine; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 167)

3-*O*-Methyl-D-glucose
Blood-brain barrier; Brain microvessel endothelial cell; Hexose uptake; Insulin; Glucose transporter (Takakura, Y. (1070) 1)

Methylenetetrahydromethanopterin dehydrogenase
5,6,7,8-Tetrahydromethanopterin; Coenzyme F_{420}; Deazaflavin; Methanogenesis; (*M. thermoautotrophicum*) (Te Brömmelstroet, B.W. (1073) 77)

Methylenetetrahydromethanopterin reductase; 5,6,7,8-Tetrahydromethanopterin; Coenzyme F_{420}; (*M. barkeri*) (Te Brömmelstroet, B.W.J. (1079) 293)

Methylenetetrahydromethanopterin reductase
Methylenetetrahydromethanopterin dehydrogenase; 5,6,7,8-Tetrahydromethanopterin; Coenzyme F_{420}; (*M. barkeri*) (Te Brömmelstroet, B.W.J. (1079) 293)

***N*-Methylglycine**
β-*N*-Methylaminoalanine; β-*N*-Methylaminopyruvate; L-Amino acid oxidase; Neurotoxic amino acid (Hashmi, M. (1074) 36)

Methylglyoxal
Gluconeogenesis; Drug oxidation; Glutathione; Hepatocyte (Kalapos, M.P. (1092) 284)

7-Methylguanine
Amino acid sequence; Cooperative interaction; Spectroscopic study; mRNA cap structure; Cap binding protein (IF-4E) (Ueda, H. (1075) 181)

Methylmalonyl-CoA
Propionate; Carboxylation; NMR, ^{13}C-; Succinate pathway; Propionyl-CoA : oxaloacetate transcarboxylase; Anaerobic state (Houwen, F.P. (1056) 126)

Methylthioadenosine sulfoxide
Microsome; Glucose-6-phosphatase; Enzyme modification; Triton X-114; Enzyme conformation; (Rat liver) (Speth, M. (1068) 217)

4-Methylumbelliferyl β-D-cellobioside
Exo-cellobiohydrolase; Transglycosylation; (*T. longibrachiatum*) (Gusakov, A.V. (1073) 481)

Mevalonolactone
Hep G2; Chylomicron remnant; LDL; LDL receptor; Compactin (Chen, Q. (1083) 173)

MHC class II molecule
cDNA; RT1.B β chain; (Rat) (Syha-Jedelhauser, J. (1089) 414)

Michaelis-Menten kinetics
Progress curve; Experimental design; Enzyme kinetics; Kinetic analysis (Duggleby, R.G. (1080) 231)

Microcystin
Elongation factor 2; Initiation factor-2; Okadaic acid; Protein phosphorylation; Protein synthesis (Redpath, N.T. (1093) 36)

Microelectrode
Cultured renal cell line (A6); Specific membrane conductance; Membrane conductance; Voltage dependence; Circuit analysis (Granitzer, M. (1069) 87)

Transmembrane potential; Intracellular potassium ion activity; Hyperosmotic stress; Transference number; Potassium, intracellular; Cell volume; (Mouse liver) (Wang, K. (1069) 187)

Microelectrode technique
Membrane potential; Amphotericin B; Potassium ion conductance; (*R. catesbeiana* cornea) (Carrasquer, G. (1069) 181)

Microemulsion-based gel
Lipase; Cryoenzymology; Enantioselectivity (Rees, G.D. (1073) 493)

Microencapsulated liposome system
Lipid–alginate interaction; Bilayer permeability; Pulsatile release; Phospholipid bilayer (Cohen, S. (1063) 95)

α_1-Microglobulin
Tissue-specific gene expression; mRNA; Gene regulation; cDNA cloning; (Pig) (Tavakkol, A. (1088) 47)

β_2-Microglobulin
Fibroblast; Fibroblast growth factor; Superinducible protein; Immunosuppression (Davis, T.R. (1095) 145)

Microinjection
Sodium ion efflux; Barnacle fiber; ATP (Bittar, E.E. (1070) 332)

Micromechanics
Model membrane; Membrane potential; Cable equation; Glycerol monooleate; Gramicidin; Silicon (Fromherz, P. (1062) 103)

Microplasmodium
Calcium chloride; Histone $H1^0$; HMG-like; (*P. polycephalum*) (Heads, R.J. (1079) 15)

Microscopy
Ether phospholipid; Lipid polymorphism; Synchrotron radiation; X-ray diffraction; NMR, ^{31}P- (Lohner, K. (1061) 132)

Microsomal chitinase
Zymogen; Enzyme kinetics; Antifungal agent; (*C. albicans*) (Dickinson, K. (1073) 177)

Microsomal lipid
Incorporation; Desaturation; Lipid; Age; (Blackcurrant seed oil) (Ulmann, L. (1086) 230)

Microsomal membrane
Catalytic hydrogenation; Δ^{12}-Desaturase; Membrane fluidity; Microviscosity; Fatty acid hydrogenation; Linoleic acid; (*C. lipolytica*) (Horváth, I. (1085) 126)

Microsome
Phosphatidylinositol; Ethanol; Membrane tolerance; Fatty acid; NMR, ^{1}H-; Phospholipid; (Rat liver) (Ellingson, J.S. (1062) 199)

Cytochrome *P*-450; Membrane topology; (Rat liver) (Vergères, G. (1063) 235)

Sarcoplasmic reticulum; Bilayer; Potassium ion channel; Barium ion blockage; Conductance level; (Canine aorta) (Bezprozvanny, I.B. (1064) 75)

Glucose-6-phosphatase; Methylthioadenosine sulfoxide; Enzyme modification; Triton X-114; Enzyme conformation; (Rat liver) (Speth, M. (1068) 217)

Thiazide receptor; Sodium; Chloride; Percoll; (Rabbit kidney) (Ellison, D.H. (1069) 241)

Acyl-CoA : lysolipid acyltransferase; Acyl-CoA acyltransferase; Lyso-PC : lyso-PS transacylase; Phosphatidylcholine transacylase; Phospholipid metabolism; (Mouse sciatic nerve) (Cassagne, C. (1070) 119)

Chorionic villi; Glucose-6-phosphatase; (Human placenta) (Barash, V. (1073) 161)

Cytochrome *P*-450; NADPH-cytochrome *c* reductase; Phosphatase; (Rat liver) (Puntarulo, S. (1074) 12)

Acyl chain elongation; Cytochrome b_5; Fatty acid; Desaturase; (Rat liver) (Demirkapi, N. (1082) 49)

Dietary fat; $(n-3)$ Fatty acid; $(n-6)$ Fatty acid; Fatty acid desaturation; (Rat liver) (Christiansen, E.N. (1082) 57)

HIV; Hepatitis B virus; Phospholipid prodrug; AZT; Dideoxycytidine; 3′-Deoxythymidine; Mitochondrion (Van Wijk, G.M.T. (1086) 99)

Glucose-6-phosphatase; Glucose-6-phosphate transport; Pentamidine (Scott, H.M. (1097) 31)

Microsome, rough
Plasma protein; Protein; Secretion rate; Saponin; Membrane association; (Rat liver) (Myrset, A.H. (1070) 229)

Microspore culture
Cell sorting; (*Brassica napus*) (Deslauriers, C. (1091) 165)

Microtubule
Dynamic microtubule; Microtubule dynamic instability; Kinetic property (Martin, S.R. (1073) 555)

Microtubule assembly
Tubulin; Thioredoxin; Sulfhydryl; Disulfide; (Bovine brain) (Khan, I.A. (1076) 289)

Microtubule-associated protein 2
Calcium; Calmodulin; Calmodulin-dependent protein kinase II; Phosphorylation; Inactivation (Katoh, T. (1091) 205)

Microtubule dynamic instability
Dynamic microtubule; Microtubule; Kinetic property (Martin, S.R. (1073) 555)

Microviscosity
Catalytic hydrogenation; Δ^{12}-Desaturase; Membrane fluidity; Fatty acid hydrogenation; Linoleic acid; Microsomal membrane; (*C. lipolytica*) (Horváth, I. (1085) 126)

Microwave radiation
Membrane permeability; Liposome; Fluorescence; 5(6)-Carboxyfluorescein (Saalman, E. (1064) 124)

Milk lipid
Bile salt stimulated lipase; Gastric digestion; Gastric lipase; Suckling neonate (Iverson, S.J. (1083) 109)

Minor small nuclear ribonucleoprotein
Gene family; Histone gene; RNA 3′ processing; (*Mus musculus*) (Gruber, A. (1088) 151)

MIP
Lens; MP70; Hereditary cataract RFLP; (Mouse) (Shiels, A. (1097) 81)

Lens; Hereditary cataract; Chimaera; Immunofluorescence; (Mouse) (Shiels, A. (1097) 318)

Mistranslation
Codon usage; Protein synthesis; Amino acid starvation (Ulrich, A.K. (1089) 362)

Mite proteinase
Vascular permeability reaction; Proteinase inhibitor; (House dust mite) (Maruo, K. (1074) 62)

Mitochondrial damage
δ-Aminolevulinic acid; Porphyria, acute intermittent; Lead poisoning; Reactive oxygen species; Oxygen; (Rat liver mitochondria) (Hermes-Lima, M. (1056) 57)

Mitochondrial DNA
Polymerase chain reaction; Nucleotide sequencing; Mitochondrial myopathy; Myoglobinuria (Ohno, K. (1090) 9)

Mitochondrial endonuclease
Endonuclease G; mtDNA; DNA polymerase-γ; (Rat) (Houmiel, K.L. (1079) 197)

Mitochondrial enzyme
Fatty acid β-oxidation; Beta-oxidation; Respiratory chain (Sumegi, B. (1081) 121)

Mitochondrial evolution
Cytochrome *c*; (*Rps. viridis*); (*Pa. denitrificans*) (Pettigrew, G.W. (1058) 25)

Mitochondrial matrix
Succinate thiokinase; Nucleoside diphosphate kinase; Nucleotide specificity; (Heart); (Liver); (Rabbit) (Kadrmas, E.F. (1074) 339)

Mitochondrial membrane
ATP/ADP translocator; Contact site; Freeze-fracture; ADP (Bücheler, K. (1056) 233)

Membrane permeability; Carboxyatractyloside; Calcium release (Chávez, E. (1070) 461)

Mitochondrial membrane potential
Pesticide; Phosphorylation; (DDT) (Moreno, A.J.M. (1060) 166)

Mitochondrial myopathy
Polymerase chain reaction; Nucleotide sequencing; Mitochondrial DNA; Myoglobinuria (Ohno, K. (1090) 9)

Immuno-flow cytometry; Immunoprecipitation; Mitochondrial protein; Cytochrome *c* oxidase (Van den Bogert, C. (1097) 87)

In situ hybridization; Cytochrome *c* oxidase-negative; mtDNA deletion (Collins, S. (1097) 309)

Mitochondrial oxidative phosphorylation
Cardiomyocyte; ADP diffusion; ADP compartmentation; Creatine; Creatine kinase system; Energy transport (Saks, V.A. (1074) 302)

Mitochondrial presequence
Peptide–lipid interaction; Membrane potential; Tryptophan fluorescence; Mastoparan X; Regulatory peptide (De Kroon, A.I.P.M. (1068) 111)

Mitochondrial protein
Protein modification; Coenzyme A modification; Acetyl-CoA acetyltransferase; (Rat liver) (Huth, W. (1077) 1)

Immuno-flow cytometry; Immunoprecipitation; Cytochrome *c* oxidase; Mitochondrial myopathy (Van den Bogert, C. (1097) 87)

Mitochondrial ribosomal protein
2-Oxo acid dehydrogenase complex; Dihydrolipoamide acyltransferase; Protein sequence similarity (Russell, G.C. (1076) 225)

Mitochondrial RNA processing RNA
Transcription; RNA polymerase III; Cloning; (Human) (Yuan, Y. (1089) 33)

Mitochondrial transport
Photoaffinity labeling; Tricarboxylate carrier (Szewczyk, A. (1073) 209)

Mitochondria rich cell
Aldosterone; Amphibian skin; Chloride flux (Devuyst, O. (1066) 268)

Mitochondrion
Calcium ion release; Lasalocid-A; Nigericin; (Liver); (Heart) (Antonio, R.V. (1056) 250)

Photosynthesis; Respiration; Malate-oxaloacetate shuttle; NADH dehydrogenase; NADPH-dehydrogenase; (Plant) (Krömer, S. (1057) 42)

QH_2 : cytochrome *c* oxidoreductase; Cytochrome bc_1 complex; Ubiquinone; Respiratory chain (Marres, C.A.M. (1057) 51)

Hexokinase; Brain; Tumor; ATP (Kabir, F. (1057) 147)

Hepatocyte; Fructose; 2-Phosphoglycerate; Atractyloside (Grivell, A.R. (1059) 45)

Proton permeability; Cation permeability; Fatty acid; Respiratory control (Brown, G.C. (1059) 55)

ATPase, F_1-; Protein purification; IEF; HPLC (Gagliardi, D. (1059) 323)

Permeability transition; Calcium uniporter regulation; Aqueous space volume (Igbavboa, U. (1059) 339)

Intrinsic uncoupling; Proton conductance; (Yeast) (Ouhabi, R. (1060) 293)

Creatine kinase; Oligomeric structure; (Rat brain) (Kottke, M. (1061) 215)

Porin; Reconstitution; Ion selectivity; (*A. anguilla*) (De Pinto, V. (1061) 279)

Anion transport; *N*-Ethylmaleimide; Mercurial; Thiol (Beavis, A.D. (1063) 111)

Carnitine carrier; Reconstitution; Kinetics; Liposome; (Rat liver) (Indiveri, C. (1065) 231)

Coenzyme A; Transport; (Rat heart) (Tahiliani, A.G. (1067) 29)

Carnitine carrier; Reconstitution; Transport; Liposome; (Rat liver) (Indiveri, C. (1069) 110)

ATP synthesis; ATP synthase, F_1F_0-; ADP/ATP translocator; Lateral diffusion coefficient; Oxidative phosphorylation; Proton transfer (Gupte, S.S. (1069) 131)

Phosphate transport; Lipid composition; Hypothyroidism; (Rat liver) (Paradies, G. (1070) 180)

Carnitine palmitoyltransferase I; Albumin; Rat; Enzyme kinetics; Acyl-CoA binding to albumin (Richards, E.W. (1076) 23)

DNA topoisomerase I; Human platelet; Camptothecin (Kosovsky, M.J. (1078) 56)

Pyruvate (monocarboxylate) carrier; Transport; Purification; Reconstitution; Yeast (Nałęcz, M.J. (1079) 87)

Calmodulin; Proteinase (Wright, L.S. (1079) 174)

Human immunodeficiency virus; Nucleoside diphosphate diglyceride; AZT; Pyrophosphatase (Van Wijk, G.M.T. (1084) 307)

Peroxisome; Beta-oxidation; HETES; Mutant (Gordon, J.A. (1085) 21)

HIV; Hepatitis B virus; Phospholipid prodrug; AZT; Dideoxycytidine; 3′-Deoxythymidine; Microsome (Van Wijk, G.M.T. (1086) 99)

Thyroid hormone; Thyroxine; Cardiolipin synthase (Hostetler, K.Y. (1086) 139)

NADH : ubiquinone reductase; cDNA; Sequence; (*Neurospora crassa*) (Van der Pas, J.C. (1089) 389)

NADH : ubiquinone reductase; Complex I; Sequence; Electron transfer; (*Neurospora crassa*) (Weidner, U. (1089) 391)

Creatine kinase; Gene expression; Isoenzyme; Creatine phosphate shuttle; Regulation (Payne, R.M. (1089) 352)

Cyanide-resistant respiration; Alternative oxidase; cDNA; Nucleotide sequence; (*Hansenula anomala*) (Sakajo, S. (1090) 102)

Cytochrome *c* oxidase; Subunit IV; cDNA; Nucleotide sequence; Cleavable presequence; (*Dictyostelium discoideum*) (Rizzuto, R. (1090) 125)

Protein synthesis; tRNA; Elongation factor; Ribosome (Kumazawa, Y. (1090) 167)

Steroidogenesis; Sphingomyelin degradation; Sphingomyelinase; (Leydig tumor cell); (Mouse) (Pörn, M.I. (1093) 7)

Thyroxine; Cardiomyocyte; Heart hypertrophy; ATP synthase; (Rat) (Das, A.M. (1096) 284)

Mitogen
Phospholipase D; Inositol lipid hydrolysis; Second messenger; (Swiss 3T3 fibroblasts) (Cook, S.J. (1092) 265)

MAP kinase; S6 kinase; Phosphotyrosine (Sturgill, T.W. (1092) 350)

Mitogen stimulation
mRNA; Gene expression; Enzyme activity; Hypoxanthine phosphoribosyl transferase gene; (Human lymphocyte) (Steen, A.-M. (1088) 77)

Molecular species; 1,2-Diacylglycerol; Phosphatidic acid; (Swiss 3T3 cell) (Divecha, N. (1093) 184)

Mitosis
Cell cycle; Calcium ion; Calmodulin; Calcium ion concentration, transient; Cytosolic free calcium concentration; DNA replication; Nuclear division (Anraku, Y. (1093) 169)

Mixed-chain phosphatidylcholine
Mixed interdigitated bilayer; Phosphatidylcholine; Phase transition; DSC (Lin, H.-n. (1067) 17)

Mixed interdigitated bilayer
Mixed-chain phosphatidylcholine; Phosphatidylcholine; Phase transition; DSC (Lin, H.-n. (1067) 17)

Mixed micelle
Hepatic lipase; Apolipoprotein E; Activation; Phosphatidylcholine (Thuren, T. (1083) 217)

Mobile DNA element
Retrotransposition; DNA element (Tino, A. (1087) 262)

Model fitting
Alanine metabolism; Energy metabolism; Enzyme kinetics; (Liver) (Bohnensack, R. (1073) 347)

Modeling
Butyrylcholinesterase; Tubocurarine; Inhibition; Stopped-flow; Conformation (Stojan, J. (1079) 96)

Model membrane
Lipid–cholesterol interaction; Transformed cell; Liposome; DSC (Kariel, N. (1062) 70)

Membrane potential; Cable equation; Glycerol monooleate; Gramicidin; Silicon; Micromechanics (Fromherz, P. (1062) 103)

Model size
Polypeptide; Harmonic force field; Conformer state (Balázs, A. (1077) 127)

Modification
β-Lactoglobulin; β-Carotene; Retinoid; Ligand binding (Dufour, E. (1079) 316)

Modification of protein
Hemoglobin; Sickle hemoglobin; Polymerization; Porphyrin; Oxygen carrier (Adachi, K. (1079) 268)

Molecular chaperone
Antigen, 65 kDa; Autoimmunity; GroEL related protein; (Chinese hamster ovary) (Ahmad, S. (1087) 253)

Molecular cloning
Binding protein; Gene structure; Sequence similarity; (Silk moth) (Krieger, J. (1088) 277)

Prolactin-like protein; Prolactin-growth hormone family; Bovine placenta (Tanaka, M. (1088) 385)

trpE; Nucleotide sequence; Anthranilate synthase I; (*Bacillus caldotenax*) (Shiratsuchi, A. (1090) 348)

Molecular conformation
5′-*O*-[*N*-(L-Alanyl)sulfamoyl]adenosine; Alanyl-AMP analog; X-ray analysis; Crystal structure (Ueda, H. (1080) 126)

Molecular diffusion
Membrane; Phospholipid bilayer; Neutron scattering (Tabony, J. (1063) 67)

Molecular dynamics
Cytochrome *c*; Protein dynamics (Weber, P.C. (1058) 83)

Amphiphile; Plasmalogen; Phospholipid (Han, X. (1069) 37)

Molecular evolution
Growth hormone; cDNA cloning; Non-coding region (Yamakawa, M. (1087) 247)

Xanthine dehydrogenase; *Rosy* locus; Transcription; Genetic transformation; (*Calliphora vicina*); (*Drosophila melanogaster*); (*Dipteran*) (Tiveron, M.-C. (1088) 390)

Molecular form
Aspartate aminotransferase; Heterogeneity; Oxidation; Storage; (Chicken liver) (Imperial, S. (1077) 72)

Molecular heterogeneity
McArdle's disease; Phosphorylase (McConchie, S.M. (1096) 26)

Molecular interaction
Lipid bilayer; Phase transition; Phase diagram; Drug; Anesthetic; Density fluctuation; Interface (Jørgensen, K. (1062) 227)

Molecular modelling
Ferredoxin methanogen; Protein sequence; Thermostability; (Archaebacteria) (Bruschi, M. (1076) 79)

Molecular probe
Membrane potential; Energy transduction; (Mitochondria); (Membrane) (Tran, T.V. (1059) 265)

Molecular species
Diacylglycerol; Phorbol myristate acetate; Phosphatidylcholine turnover (Robinson, M. (1085) 63)

1,2-Diacylglycerol; Phosphatidic acid; Mitogen stimulation; (Swiss 3T3 cell) (Divecha, N. (1093) 184)

Molecular weight
Hemocyanin; Cation stabilization; Light scattering; Subunit dissociation; Ionic stabilization; Subunit contact; (*Y. limulata*) (Herskovits, T.T. (1076) 71)

Mollusc
Cadmium-binding protein; Metallothionein; *N*-Acetylation; Protein structure; Tandem mass spectrometry (Roesijadi, G. (1074) 230)

Globin gene; (*Anadara*) (Titchen, D.A. (1089) 61)

Molten globule
Interleukin-2; Fluorescence; Circular dichroism (Dryden, D. (1078) 94)

Molybdenum cofactor
Molybdopterin; Gene mutant; *nit* gene; (*C. reinhardtii*) (Aguilar, M.R. (1073) 463)

Molybdenum enzyme
Pterin molybdenum cofactor; Sequence family (Wootton, J.C. (1057) 157)

Molybdoenzyme
Nitrate reductase; Bacterial respiration; Denitrification; Overproduction; (*Pseudomonas*) (Blümle, S. (1057) 102)

Molybdopterin
Molybdenum cofactor; Gene mutant; *nit* gene; (*C. reinhardtii*) (Aguilar, M.R. (1073) 463)

Pteridine; (*R. sphaeroides*) (Seo, N. (1074) 439)

Momorcharin
cDNA; Ribosome inactivating protein; Trichosanthin (Ho, W.K.K. (1088) 311)

Monensin
Liposome; Membrane potential; Sodium ion/proton antiport (Nakazato, K. (1064) 103)

Lipid sorting; Membrane biogenesis; Vesicular transport; Fatty acyl chain length (Bertho, P. (1070) 127)

Lysophosphatidylinositol; Lysophosphatidylinositol kinase; Lysophosphatidylinositol monophosphate; Phosphatidylinositol (Wheeler, J.J. (1086) 310)

Monoacylglycerol
Sodium pump; ATPase, Na^+/K^+-; Diacylglycerol (Askari, A. (1069) 127)

Phosphatidylcholine; Phase behavior; NMR, ^{31}P-; Freeze-fracture; Dynamic light scattering (Yin, C.-C. (1070) 33)

Monoacylglycerol lipase
Phospholipase A_2; Phospholipase C; Diacylglycerol lipase; Arachidonic acid; (Rat macrophage) (Errasfa, M. (1085) 201)

Monoclonal antibody
Glucose transport; Nucleoside transport; Immunoadsorption; (Human erythrocyte) (Jhun, B.H. (1061) 149)

Peroxisome; Peroxisomal membrane; Integral membrane polypeptide; Clofibrate; (Rat liver) (Imanaka, T. (1062) 264)

Chemical crosslinking; Sarcoplasmic reticulum; Glycoprotein, 53 kDa; Calsequestrin; ATPase, $(Ca^{2+} + Mg^{2+})$- (Burgess, A.J. (1064) 139)

High affinity transport; Choline; Hemicholinium-3; Purification; Synaptic plasma membrane (Knipper, M. (1065) 107)

Erythrocyte; Membrane protein; Band 7 protein; Epitope map (Hiebl-Dirschmied, C.M. (1065) 195)

ATPase, Na^+/K^+-; Isoform; Electrophoresis; Sequence analysis (Cortas, N. (1070) 223)

Bilirubin-albumin (Okamura, Y. (1073) 538)

Platelet; Activation (Chau, L.-Y. (1074) 118)

Metalloenzyme; Dehydrogenase; (Human) (Ho, Y.-W. (1074) 419)

Protein folding; Creatine kinase; Epitope mapping; Synthetic peptide; (Human brain) (Man, N. (1076) 245)

Endoglucanase; Cellobiohydrolase; Mass spectrometry; (*T. reesei*) (Luderer, M.E.H. (1076) 427)

Antigen–antibody interaction; β-Casein; ELISA; Peptide–protein interaction; Proteolysis (Kobayashi, T. (1077) 11)

Leukotriene; RIA; ELISA; Macrophage (Reinke, M. (1081) 274)

Uricase; Peroxisome; Liver-specific gene expression; (Hepatocyte); (Rat liver) (Motojima, K. (1087) 316)

Carcinogen–DNA interaction; DNA conformation (Tada, M. (1090) 29)

Monocyte
Cholesterol; Calcium concentration, cytosolic free; Platelet activating factor; (U937 cell) (Aepfelbacher, M. (1074) 125)

Lysophosphatidylcholine; Lysophospholipase C; Chemotaxis; Diacylglycerol (Quinn, M.T. (1082) 293)

Monocyte differentiation
LFA-1; Homotypic adhesion (Cabañas, C. (1092) 165)

Monocyte / macrophage activation
C-reactive protein; Receptor internalization (Tebo, J.M. (1095) 210)

Monolayer
Acylgramicidin; Acylprotein; DMPC; Gramicidin A; NMR; CD; HPLC (Vogt, T.C.B. (1069) 157)

Lung; Calcium ion dependence; Phospholipid binding protein; Phospholipase A_2 (Tsao, F.H.C. (1081) 141)

Monomethylethanolamine
Phosphatidylcholine; Catabolism; Dimethylethanolamine; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 178)

Mono-multiheme
Cytochrome *c*; Axial ligand; Sulfate reducer; (*Desulfovibrio*); (Spectroscopy) (Moura, J.J.G. (1058) 61)

Monomyristoylphosphatidylcholine
Dimyristoylphosphatidylcholine; Liposome; Insulin; Lytic action; Enthalpic change; Gel-liquid crystalline transition; Phase transition (Senisterra, G.A. (1064) 148)

Mononuclear phagocyte system
Poly(ethylene glycol); Liposome; Phosphatidylethanolamine; Monosialoganglioside (Allen, T.M. (1066) 29)

Pharmacokinetics; Liposome; Reticuloendothelial system; Poly(ethylene glycol); Monosialoganglioside (Allen, T.M. (1068) 133)

Monosaccharide
Autoxidation; Glyceraldehyde; ATPase; Oxidation; (Red blood cell) (Mira, M.L. (1060) 257)

Monosialoganglioside
Poly(ethylene glycol); Mononuclear phagocyte system; Liposome; Phosphatidylethanolamine (Allen, T.M. (1066) 29)

Pharmacokinetics; Liposome; Reticuloendothelial system; Mononuclear phagocyte system; Poly(ethylene glycol) (Allen, T.M. (1068) 133)

Monte Carlo method
Polyunsaturated acyl chain; Docosahexaenoyl chain; Conformational property; Equilibrium flexibility; Computer simulation (Rabinovich, A.L. (1085) 53)

Mossbauer spectroscopy
High potential iron-sulfur protein; EPR; Spectroscopy; Cubane; Structure; *g*-Strain; Salt effect (Dunham, W.R. (1079) 253)

Mouse skin
Transformation; Electroporation in vivo (Titomirov, A.V. (1088) 131)

Mouse strain
Gene expression; LDL receptor; Apolipoprotein B; Diet (Srivastava, R.A.K. (1086) 29)

MP70
Lens; MIP; Hereditary cataract RFLP; (Mouse) (Shiels, A. (1097) 81)

***mpk* kinase**
Erbstatin; Tyrphostin; *cdc2* kinase; Oocyte maturation (Daya-Makin, M. (1093) 87)

MRS
NMR; Muscular dystrophy; Muscle development (Dunn, J.F. (1096) 115)

Mucilage
Vanadate; Bromoperoxidase; Alginate; Poly(ethylene glycol); Partition; Two-phase system; (*Laminaria*) (Jordan, P. (1073) 98)

Mucin glycoprotein
Respiratory mucus; Cystic fibrosis (Padhye, N.V. (1077) 332)

Mucosa
Fatty acid composition; Cell differentiation; Brush-border membrane; (Pig small intestine) (Alessandri, J.-M. (1086) 340)

Mucosal blood flow
5-Lipoxygenase; Sulfidopeptide-leucotriene; Arachidonic acid; 5-Hydroxyicosatetraenoic acid; Oxygen saturation; Gastric ulcer (Pasechnikov, V.D. (1097) 45)

Multibilayer
Zeaxanthin; Violaxanthin; Linear dichroism; X-ray diffractometry (Gruszecki, W.I. (1069) 21)

Multicatalytic proteinase
Protein degradation; Ubiquitin; Macropain; ATP; Proteosome (De-Martino, G.N. (1073) 299)

Differentiation; Proteinase; ATP; (Murine erythroleukemia cell) (Tsukahara, T. (1079) 273)

Multidrug resistance
P-glycoprotein; Glycosylation; (KB cell); (Human tissue) (Ichikawa, M. (1073) 309)

Verapamil hypersensitivity; Cyclosporin A; P-glycoprotein (Stow, M.W. (1092) 7)

Cellular anthracycline distribution; Fluorescence anisotropy (Lankelma, J. (1093) 147)

Multienzyme complex
Ferrichrome synthetase; Phosphopantetheine; (*A. quadricinctus*) (Siegmund, K.-D. (1076) 123)

Multi-heme *c*-cytochrome
Catalytic *c*-heme; Nitrification; Cytochrome *c* (Hooper, A.B. (1058) 13)

Multilamellar liposome
Myotoxin; Snake venom; Liposome; Phospholipase A_2; (*Bothrops* species) (Díaz, C. (1070) 455)

Multiple integration
Tetracycline-resistance determinant; Replication origin; Chromosomal location; (Bacillus) (Amano, H. (1088) 251)

Multiple leader exon
Insulin-like growth factor II (IGFII); Heterogeneous mRNA; Transcription; (Mouse) (Ikejiri, K. (1089) 77)

Multiple phosphorylation
Myosin light chain; Phorbol ester; (Aortic smooth muscle) (Rokolya, A. (1057) 276)

Murine hybridoma
Expression; Induction; Methotrexate; Plasminogen activator (Lo, K.-M. (1088) 217)

Muscarinic receptor
Neuroblastoma cell; Carbachol; (SH-SY5Y) (Jansson, C.C. (1095) 255)

Muscle
Parvalbumin; Immunoassay; Nervous tissue (Inaguma, Y. (1075) 68)

Calpain; Calpastatin; Calcium ion dependent proteinase; Proteinase; (Bovine skeletal muscle) (Edmunds, T. (1077) 197)

Muscle contraction
Phosphorylase *b* kinase; Phosphorylase *a* phosphatase; Fatty acid; (Pig vascular smooth muscle) (Barron, J.T. (1073) 550)

Myosin; Actomyosin interaction; Fluorescence quenching; Myosin light chain (Bhandari, D.G. (1077) 385)

Fatty acid; Glycolysis; Glycogen; Smooth muscle; NMR, ^{31}P-; (Pig) (Barron, J.T. (1093) 125)

Muscle damage
Vitamin E analog; Calcium ionophore (Phoenix, J. (1097) 212)

Muscle development
NMR; MRS; Muscular dystrophy (Dunn, J.F. (1096) 115)

Muscle gene
Tropomyosin; Transcription, in vitro; (*Drosophila*) (Lichter, J.B. (1088) 419)

Muscular dystrophy
NMR; MRS; Muscle development (Dunn, J.F. (1096) 115)

Mushroom
Lectin; Chemical modification; NMR; Nuclear Overhauser effect; (*I. resinosum*) (Kawagishi, H. (1076) 179)

Mutant
Peroxisome; Beta-oxidation; HETES; Mitochondrion (Gordon, J.A. (1085) 21)

Mutein
Tumor necrosis factor; Synthetic gene; Gene expression; Site-directed mutagenesis; Random mutagenesis; (Human) (Ito, R. (1096) 245)

Mycolic acid synthesis
Cell-free system; Unsaturated mycolic acid; (Mycobacteria) (Lopez-Marin, L.M. (1086) 22)

Mycoplasma contamination
Formycin B transport;; (Mammalian cell culture) (Plagemann, P.G.W. (1064) 162)

Myelin
NMR, ^{31}P-; Phospholipid (Kilby, P.M. (1085) 257)

Myelin basic protein
Carboxylmethylation; Proteolysis (Sellinger, O.Z. (1080) 110)

Myelin basic protein kinase
$p44^{mpk}$ kinase; Oocyte maturation (Sanghera, J.S. (1095) 153)

Myelin P_2
Fatty acid binding protein; Retinol-binding protein; Tissue-specific expression; Fatty acid binding site; Differentiation; Peroxisomal proliferator; (Liver, Heart, Muscle, Kidney, Adipocyte) (Veerkamp, J.H. (1081) 1)

Myeloid differentiation
Inositol transport; HL60 cell; Neutrophil (Baxter, M.A. (1091) 158)

Myeloid leukemia cell
Differentiation; Growth regulation; Pyrimidine nucleoside; Staurosporin; (HL-60 cell) (Makishima, M. (1094) 1)

Myelomonocyte
c-*myb*; Differentiation; Granulocyte colony stimulation factor; Maturation (Yanagisawa, H. (1088) 380)

Myeloperoxidase
EPR; Halide; Cyanide complex; Enzyme catalysis (Lee, H.C. (1076) 317)

Myoblast
Collagen binding protein; Phosphorylation (Cates, G.A. (1073) 521)

cyclic AMP-dependent protein kinase; Cα catalytic subunit; cDNA; (Rat) (Wiemann, S. (1089) 254)

Skeletal muscle; Cell differentiation; Myotube; Fibroblast; L-Carnitine (Martinuzzi, A. (1095) 217)

Myoblast fusion
Cesium; Myogenesis; Cholesterol; Phosphatidylethanolamine; Phosphatidylcholine; Phosphatidylinositol (Santini, M.T. (1070) 27)

Myocardial CoA
Essential fatty acid; Palmitic acid; Pyruvate (Saddik, M. (1086) 217)

Myofibroblast
Lipocyte; Ito-cell; Lipid synthesis; Indomethacin; Insulin (Guaragna, R.M. (1085) 29)

Myogenesis
Cesium; Myoblast fusion; Cholesterol; Phosphatidylethanolamine; Phosphatidylcholine; Phosphatidylinositol (Santini, M.T. (1070) 27)

Gene regulation; Cardiac actin gene; (Human gene); (Rat myoblast) (Colledge, W.H. (1087) 39)

Myoglobin
Hydrogen peroxide; Radical; Electron spin resonance; Phenoxyl; Peroxide; Ferryl (Davies, M.J. (1077) 86)

Cyanogen bromide-modified myoglobin; Distal histidine; Magnetic circular dichroism; Pentacoordinate ferric heme; (*Aplysia*) (Bracete, A.M. (1080) 264)

Myoglobinuria
Polymerase chain reaction; Nucleotide sequencing; Mitochondrial DNA; Mitochondrial myopathy (Ohno, K. (1090) 9)

Myometrium
ATPase, $(Ca^{2+} + Mg^{2+})$-, nonspecific; ATP diphosphohydrolase; ATPase; Ectoenzyme; Plasma membrane (Magocsi, M. (1070) 163)

Myosin
Muscle contraction; Actomyosin interaction; Fluorescence quenching; Myosin light chain (Bhandari, D.G. (1077) 385)

Myosin heavy chain
Actin binding site (Muhlrad, A. (1077) 308)

Myosin light chain
Multiple phosphorylation; Phorbol ester; (Aortic smooth muscle) (Rokolya, A. (1057) 276)

Muscle contraction; Myosin; Actomyosin interaction; Fluorescence quenching (Bhandari, D.G. (1077) 385)

Myotoxin
Snake venom; Multilamellar liposome; Liposome; Phospholipase A_2; (*Bothrops* species) (Díaz, C. (1070) 455)

Myotube
Skeletal muscle; Cell differentiation; Myoblast; Fibroblast; L-Carnitine (Martinuzzi, A. (1095) 217)

N

NAD^+ binding
Pertussis toxin; Equilibrium dialysis; Binding study; (*B. pertussis*) (Lobban, M.D. (1078) 155)

NAD(H)
NADP(H); Glucose-6-phosphate dehydrogenase; (Human erythrocyte) (Canepa, L. (1074) 101)

NADH–acceptor oxidoreductase
Transferrin; Iron uptake; Liver perfusion; Transferrin receptor (Goldenberg, H. (1067) 145)

NADH binding
Aldolase; Fluorescence spectroscopy and polarization; Phosphorescence at room temperature; (Rabbit muscle) (Sytnik, A.I. (1079) 123)

NAD(H)-binding site
NADH : ubiquinone reductase; Complex I; FMN-binding site; Iron-sulfur cluster; (*Neurospora crassa*) (Preis, D. (1090) 133)

NADH dehydrogenase
Mitochondrion; Photosynthesis; Respiration; Malate-oxaloacetate shuttle; NADPH-dehydrogenase; (Plant) (Krömer, S. (1057) 42)

Alternative oxidase; Cyanide-insensitive respiration; Q-pool; Regulation; Respiratory chain; (Plant mitochondria) (Moore, A.L. (1059) 121)

NADH : menadione oxidoreductase
Luminol chemiluminescence; Menadione; Hydrogen peroxide; Oxygen, active species; Yeast cell (Yamashoji, S. (1059) 99)

NADH oxidase
Plasma membrane; Diferric transferrin; Carcinogen; 2-Acetylaminofluorene; (Rat liver) (Morré, D.J. (1057) 140)

NADH : ubiquinone reductase
Electron transfer; Quinone; Nitrocompound (Bironaite, D.A. (1060) 203)

Complex I; DNA sequence; (*Neurospora crassa*) (Nehls, U. (1088) 325)

Mitochondrion; cDNA; Sequence; (*Neurospora crassa*) (Van der Pas, J.C. (1089) 389)

Complex I; Mitochondrion; Sequence; Electron transfer; (*Neurospora crassa*) (Weidner, U. (1089) 391)

Complex I; NAD(H)-binding site; FMN-binding site; Iron-sulfur cluster; (*Neurospora crassa*) (Preis, D. (1090) 133)

NAD-linked dehydrogenase
Oxidative phosphorylation; Calcium ion flux, control (Moreno-Sánchez, R. (1060) 284)

NADPH
Rough endoplasmic reticulum; Polyunsaturated free fatty acid; Membrane fusion; GTP; CTP; Indomethacin (Lavoie, C. (1070) 274)

Glutamate dehydrogenase; Kinetic mechanism; α-Ketoglutarate dehydrogenase complex (Srinivasan, R. (1073) 18)

NADP(H)
NAD(H); Glucose-6-phosphate dehydrogenase; (Human erythrocyte) (Canepa, L. (1074) 101)

NADPH binding
Dihydrofolate reductase; Protein conformation; Spectrofluorimetry; (Bovine liver) (Rimet, O. (1076) 435)

NADPH-cytochrome *c* reductase
Cytochrome *P*-450; Phosphatase; Microsome; (Rat liver) (Puntarulo, S. (1074) 12)

NADPH oxidase; Superoxide generation; Flavoenzyme; Cytochrome *b*-558; (Neutrophil) (Fujii, H. (1095) 201)

NADPH-cytochrome *P*-450 reductase
Cytochrome *c* heme peptide; Halogenomethane metabolism; Heme peptide modification (Masuda, Y. (1075) 131)

NADPH-dehydrogenase
Mitochondrion; Photosynthesis; Respiration; Malate-oxaloacetate shuttle; NADH dehydrogenase; (Plant) (Krömer, S. (1057) 42)

NADPH-dependent aldehyde reducing enzyme
Aldose reductase; Aldehyde reductase; Aldose reductase inhibitor; (Dog kidney) (Ohta, M. (1078) 395)

NADPH oxidase
Superoxide; Bilirubin; Cell-free system; (Pig neutrophils) (Kwak, J.Y. (1076) 369)

NADPH-cytochrome *c* reductase; Superoxide generation; Flavoenzyme; Cytochrome *b*-558; (Neutrophil) (Fujii, H. (1095) 201)

NADP-malate dehydrogenase
Protein structure; Disulfide bridge; (*P. sativum* chloroplast) (Scheibe, R. (1076) 1)

Naphthalene
Casein kinase; Inhibitor; Halogenobenzimidazole; Halogenobenzotriazole; Isoquinoline; (Maize seedling); (Plant) (Dobrowolska, G. (1080) 221)

Nasal epithelium
Cystic fibrosis; Patch clamp; Chloride channel; Non-selective cation channel (Jorissen, M. (1096) 52)

Native LDL
Acetylated LDL; Leukotriene B_4; LDL; (Human monocyte-macrophage) (Nigon, F. (1083) 230)

NCAM
Calpain; Synaptic; Plasticity; Cytoskeleton (Sheppard, A. (1076) 156)

***N*-Chloramine**
Enzyme; Metal-catalyzed oxidation; Oxidative inactivation (Maier, K. (1079) 238)

Negative regulation
Glucocorticoid receptor; DNA binding; Chromatin binding; Heat shock protein; Transcriptional synergism (Muller, M. (1088) 171)

Neonatal cardiomyocyte
Simulated ischemia; Membrane-reorganization (Musters, R.J.P. (1091) 270)

Nervous tissue
Parvalbumin; Immunoassay; Muscle (Inaguma, Y. (1075) 68)

Netropsin
DNA topoisomerase II; (Mammalian) (Beerman, T.A. (1090) 52)

Network thermodynamic computer simulation
Glucose transport; Kinetics; (Human erythrocyte) (May, J.M. (1064) 1)

Neural cell
Recombinant human CNTF; Gene expression; Bioactivity; (*E. coli*) (McDonald, J.R. (1090) 70)

Neuraminidase-treated lipoprotein (a)
Lipoprotein (a); Polyunsaturated fatty acid; Antioxidant; Lipid peroxidation (Sattler, W. (1081) 65)

Neuritic plaque
Alzheimer's disease; Neurofibrillary tangle; Paired helical filament; β-Amyloid (Crowther, R.A. (1096) 1)

Neuroblastoma
Membrane potential; Glucose; Sodium/potassium pump; (Mouse cell) (Yorek, M.A. (1061) 1)

Neuroblastoma cell
Muscarinic receptor; Carbachol; (SH-SY5Y) (Jansson, C.C. (1095) 255)

Neurodegenerative disease
Ubiquitin; Ubiquitin-mediated proteolysis; Viral disease; Development (Mayer, R.J. (1089) 141)

Neuroendocrine protein
Adrenal medulla; Chromaffin granule; cDNA sequence (Bauer, J.W. (1089) 124)

Neurofibrillary tangle
Alzheimer's disease; Paired helical filament; Neuritic plaque; β-Amyloid (Crowther, R.A. (1096) 1)

Neuron
Membrane potential; Dye; Styryl dye; Fluorescence; Electrochromism; Solvatochromism (Fromherz, P. (1068) 149)

Neurophil activation
Hypotaurine; Taurine; Radical scavenger; Antioxidant; (Human neutrophil) (Green, T.R. (1073) 91)

Neurotoxic amino acid
β-*N*-Methylaminoalanine; β-*N*-Methylaminopyruvate; *N*-Methylglycine; L-Amino acid oxidase (Hashmi, M. (1074) 36)

Neurotoxin
Textilotoxin; Subunit D; Amino acid sequence; (*P. textilis*) (Pearson, J.A. (1077) 147)

cDNA; Precursor; Phospholipase A_2; (Snake) (Bouchier, C. (1088) 401)

Neurotransmitter
ELF electric field; Amino acid; Striatum (Zecca, L. (1075) 1)

Neurotransmitter release
Bioenergetics; Cation; Exocytosis (McMahon, H.T. (1059) 243)

Neutral β-*N*-acetylglucosaminidase
Hexosaminidase C; Enzyme purification; (Carp blood) (Ueno, R. (1074) 79)

Neutral lipid
Surfactant; Lung pressure-volume characteristics; Lung stability; Phospholipid; Respiratory distress syndrome; (Preterm rabbit) (Gorree, G.C.M. (1086) 209)

Neutral lipid storage disease
Triacylglycerol metabolism; Phosphatidylethanolamine; Phosphatidylcholine; Phospholipid biosynthesis; (Human fibroblast cell line) (Williams, M.L. (1096) 162)

Neutral red
Photosynthesis; Water oxidation; Proton; Thylakoid stacking (Jahns, P. (1057) 313)

Neutron diffraction
Dipalmitoylphosphatidylcholine; Lamellar structure; Disjoining pressure (Tatulian, S.A. (1070) 143)

Neutron scattering
Membrane; Phospholipid bilayer; Molecular diffusion (Tabony, J. (1063) 67)

Neutrophil
Annexin; Membrane fusion; Membrane; Phospholipid vesicle (Oshry, L. (1066) 239)

1-Acyl-2-acetyl-*sn*-glycero-3-phosphocholine; Platelet activating factor (Triggiani, M. (1084) 41)

Inositol transport; HL60 cell; Myeloid differentiation (Baxter, M.A. (1091) 158)

Calcium; Chlortetracycline; Fluorescence response; Membrane transport (Jacob, J. (1091) 317)

Inositol hexakisphosphate; Priming; Superoxide generation; Phagocytosis (Eggleton, P. (1094) 309)

Chemotaxis; Heparin cofactor; Actin polymerization; cyclic AMP (Hoffman, M. (1095) 78)

Propranolol; Superoxide; Signal transduction; Phospholipase D (Gay, J.C. (1095) 236)

NFI
NFIII; Oct-1; Adenovirus; DNA replication (Coenjaerts, F.E.J. (1090) 61)

NFIII
NFI; Oct-1; Adenovirus; DNA replication (Coenjaerts, F.E.J. (1090) 61)

Nickel
ATP depletion; Calcium; Cell damage; Enzyme release; Magnesium; (Human fibroblast) (Kristensen, S.R. (1091) 285)

Nickel coordination
Rubredoxin; Metal replacement; Nickel-substituted rubredoxin; Hydrogenase; (*D. vulgaris*) (Mus-Veteau, I. (1060) 159)

Nickel-substituted rubredoxin
Rubredoxin; Metal replacement; Nickel coordination; Hydrogenase; (*D. vulgaris*) (Mus-Veteau, I. (1060) 159)

Nicotinamide adenine nucleotide
NMR, ^{1}H-; Nucleotide structure; Electrochemical reduction (Ragg, E. (1076) 37)

NMR; Conformation analysis; Electrochemical reduction (Ragg, E. (1076) 49)

Nicotinic acetylcholine receptor
Membrane topology; Probe; Acetylcholine receptor; Phosphatidylserine; Cyanogen bromide; (*T. californica*) (Blanton, M.P. (1067) 1)

Nicotinic receptor
Calcium influx; Catecholamine secretion; Osmotic strength; Voltage-dependent calcium channel; (Chromaffin-cell) (Heldman, E. (1091) 417)

Niemann-Pick disease
Sphingolipid; Sphingolipidose; Protein kinase C; Ceramide; Cholesterol (Koval, M. (1082) 113)

Niemann-Pick disease type C
Intracellular cholesterol transport; Skin fibroblast culture; Lipid storage disorder; (Human) (Argoff, C.E. (1096) 319)

Phenotypic heterogeneity; Intracellular cholesterol processing; Sphingomyelinase; I-cell disease; Lipid storage disorder; (Skin fibroblast culture) (Vanier, M.T. (1096) 328)

Nigericin
Mitochondrion; Calcium ion release; Lasalocid-A; (Liver); (Heart) (Antonio, R.V. (1056) 250)

Chromaffin granule; Ionophore A23187; Osmotic lysis; Catecholamine; Chromogranin A (Engel, J. (1064) 155)

Tributyltin; Phloretin; Bilayer lipid membrane; Dipole potential; Ionophore (Antonenko, Y.N. (1070) 474)

***nit* gene**
Molybdopterin; Molybdenum cofactor; Gene mutant; (*C. reinhardtii*) (Aguilar, M.R. (1073) 463)

Nitrate
Glyceryl trinitrate; Nitrite; Nitric oxide; Bioconversion; (*P. chrysosporium*) (Servent, D. (1074) 320)

AE1 protein; Anion transport; Band 3 protein; Bicarbonate; Erythrocyte; NMR (Galanter, W.L. (1079) 146)

Nitrate induction
Nitrate reductase; Transcription rate (Callaci, J.J. (1088) 127)

Nitrate reductase
Halophile; Copper protein nitrite reductase; EPR (Denariaz, G. (1056) 225)

Molybdoenzyme; Bacterial respiration; Denitrification; Overproduction; (*Pseudomonas*) (Blümle, S. (1057) 102)

Transcription rate; Nitrate induction (Callaci, J.J. (1088) 127)

Nitric oxide
Glyceryl trinitrate; Nitrite; Nitrate; Bioconversion; (*P. chrysosporium*) (Servent, D. (1074) 320)

Nitric oxide binding
Cytochrome *c*; Periplasm; Denitrification; Methanol dehydrogenase (Ferguson, S.J. (1058) 17)

Nitric oxide inhibition
Hydrogenase; (*A. vinelandii*) (Hyman, M.R. (1076) 165)

Nitric oxide synthase
Glucocorticoid; Adenocarcinoma cell; Cell damage (O'Connor, K.J. (1097) 227)

Nitridochromium(V)-porphyrin
EPR; Resonance Raman; Hemoprotein (Hori, H. (1077) 392)

Nitrification
Multi-heme *c*-cytochrome; Catalytic *c*-heme; Cytochrome *c* (Hooper, A.B. (1058) 13)

Nitrite
Glyceryl trinitrate; Nitrate; Nitric oxide; Bioconversion; (*P. chrysosporium*) (Servent, D. (1074) 320)

Interferon γ; Immune response; T cell regulation (Takagi, K. (1092) 15)

Nitrite ion
Cytochrome *d*; Trioxodinitrate; Kinetics; (*E. coli*) (Bonner, F.T. (1056) 133)

Nitrite reductase
Nitrite uptake; (*C. reinhadtii*) (Galván, A. (1074) 6)

Nitrite uptake
Nitrite reductase; (*C. reinhadtii*) (Galván, A. (1074) 6)

Nitrobenzylthioinosine
Nucleoside transport; *p*-Chloromercuriphenylsulfonate; Dipyridamole; (Hagfish red blood cell) (Fincham, D.A. (1069) 123)

Nitrocompound
NADH : ubiquinone reductase; Electron transfer; Quinone (Bironaite, D.A. (1060) 203)

Nitrofuran
Glutathione reductase; Flavoprotein redox reaction (Čénas, N.K. (1073) 195)

Nitrogenase
Sodium dithionite; Recrystallization; Redox enzyme; (*A. vinelandii*) (McKenna, C.E. (1075) 109)

Nitrogenase reduction
Electron donor; Ferredoxin; (*R. capsulatus*) (Hallenbeck, P.C. (1057) 97)

***p*-Nitrophenylphosphatase**
Calmodulin-binding domain; Calcium pump; Inhibition; (Human red cell) (Caride, A.J. (1069) 94)

***p*-Nitrophenyl phosphate**
Alkaline phosphatase; Osseous matrix; Hydrophobic chromatography; Divalent ion; (Rat) (Say, J.C. (1074) 256)

Nitroprusside
cyclic GMP; Ion channel; Patch clamp; Renal cell (Marunaka, Y. (1070) 152)

3-Nitrosalicyl-*N*-alkylamide
Respiratory chain; Succinate-ubiquinone reductase; Enzyme inhibition (Liu, C. (1057) 373)

Nitrosyl complex
EPR; Optical absorption; Cytochrome *c'*; (*Ach. xylosoxidans*) (Iwasaki, H. (1058) 79)

Nitrotyrosine-83 plastocyanin
Cytochrome *c*; Cytochrome *f*; pH dependence; Plastocyanin (Gross, E.L. (1056) 166)

Nitroxide
Nucleic acid; Single-stranded DNA binding protein; Electron spin resonance; (*E. coli*) (Bobst, E.V. (1078) 199)

Nitroxide metabolism
Red blood cell; Doxyl stearic acid; Free radical; Hemoglobin; Hypoxia (Minetti, M. (1074) 112)

Nitroxide spin label
Hydroxylamine; Reduction; Oxidation; EPR; (Proxyl) (Sentjurc, M. (1073) 329)

NMR
Cytochrome c_2; pH effect; (*R. rubrum*) (Smith, G.M. (1058) 75)

Water diffusion; Red blood cell; Sulfhydryl reagent; (Human) (Benga, G. (1061) 309)

Tritium effect; Water exchange; (Rat erythrocyte membrane) (Petcu, I. (1065) 99)

Acylgramicidin; Acylprotein; DMPC; Gramicidin A; Monolayer; CD; HPLC (Vogt, T.C.B. (1069) 157)

Pristane; Alkane; Dioleoylphosphatidylcholine; Liposome; Plasmacytomagenesis; DSC (Gawrisch, K. (1070) 409)

Papain; Aldehyde; Binding study (Hanzlik, R.P. (1073) 33)

ATP; Visibility; (Liver) (Ikai, I. (1074) 289)

Echinomycin; Distance geometry; Three-dimensional structure (Yu, C. (1075) 141)

Conformation analysis; Electrochemical reduction; Nicotinamide adenine nucleotide (Ragg, E. (1076) 49)

Lectin; Chemical modification; Nuclear Overhauser effect; Mushroom; (*I. resinosum*) (Kawagishi, H. (1076) 179)

AE1 protein; Anion transport; Band 3 protein; Bicarbonate; Erythrocyte; Nitrate (Galanter, W.L. (1079) 146)

Epithelial cell; TALH-SVE; Henle's loop; Renal cell; (Kidney) (Von Recklinghausen, I.R. (1091) 179)

Magnesium ion, intracellular; (Sheep red blood cell) (Fujise, H. (1094) 51)

Doxorubicin; Acidic phospholipid; Lipid order and mobility; Drug–membrane interaction; Fluorescence (De Wolf, F.A. (1096) 67)

Chronic renal failure; Plasma; Urine; Betaine; Trimethylamine *N*-oxide; Lactate; Ammonium ion (Bell, J.D. (1096) 101)

MRS; Muscular dystrophy; Muscle development (Dunn, J.F. (1096) 115)

NMR, ^{13}C-
Propionate; Carboxylation; Succinate pathway; Methylmalonyl-CoA; Propionyl-CoA : oxaloacetate transcarboxylase; Anaerobic state (Houwen, F.P. (1056) 126)

Oligosaccharide, neutral; α-D-GalNAc unit; Carbohydrate structure; Colostrum, bovine (Urashima, T. (1073) 225)

Palmitic acid (Langlais, D.B. (1073) 236)

Cell wall; Teichoic acid; (*Streptomyces*) (Tul'skaya, E.M. (1074) 237)

Colchicine; Tubulin (Osei, A.A. (1078) 339)

Malate; Compartmentalization; Phospho*enol*pyruvate carboxylase; (*Zea mays L.*) (Chang, K. (1092) 29)

Lipid metabolism; Choline; Ethanolamine; NMR, ^{31}P-; T47D; Spheroid (Ronen, S.M. (1095) 5)

Glycogen metabolism (Künnecke, B. (1095) 103)

NMR, ^{35}Cl-
Sarcoplasmic reticulum; Anion binding; Vanadate; Pyridoxalphosphate-6-azophenyl-2′-sulfonic acid; Pyridoxalphosphate-6-azophenyl-4′-nitro-2′-sulfonic acid (Vetter, I.R. (1067) 9)

NMR, ^{19}F-
Thymidylate synthase; Gene expression; Recombinant DNA; Enzyme purification; (Mouse); (*E. coli*) (Zhang, H. (1077) 35)

Lead toxicity; Hypertension; Calcium homeostasis; (Human platelet) (Dowd, T.L. (1092) 341)

NMR, ^{1}H-
Phosphatidylinositol; Ethanol; Membrane tolerance; Fatty acid; Microsome; Phospholipid; (Rat liver) (Ellingson, J.S. (1062) 199)

Membrane dynamics; Bilayer; Phosphatidylcholine; Cholesterol; Spin lattice relaxation time (Han, X. (1063) 129)

Liver development; Betaine; Taurine; Phosphocholine; Glycerophosphorylcholine (Rafter, J.E.M. (1074) 263)

Nucleotide structure; Electrochemical reduction; Nicotinamide adenine nucleotide (Ragg, E. (1076) 37)

Calcium binding; Lysozyme; (Equine) (Tsuge, H. (1078) 77)

Platelet factor 4; Heparin-binding; Histidine assignment (Talpas, C.J. (1078) 208)

Lipid oxidation; Sphingomyelin; *tert*-Butyl hydroperoxide; Lipid bilayer; Conjugated diene; Infrared; Fluorescence (Lamba, O.P. (1081) 181)

Adenylic acid; Alkaline earth; Conformational change; FTIR; X-ray diffraction (Tajmir-Riahi, H.-A. (1087) 49)

Liver injury; Magnetic resonance imaging; Carbon tetrachloride; (Rat) (Towner, R.A. (1096) 222)

NMR, ^{2}H-
SMS 201–995; Somatostatin analog; Circular dichroism; Fluorescence spectroscopy; Phospholipid headgroup (Beschiaschvili, G. (1061) 78)

Melittin; [Ala-14]Melittin; Dimyristoylphosphatidylcholine; Vesicle to micelle transition; Freeze-fracture; Electron microscopy (Dempsey, C.E. (1061) 175)

M13 coat protein; Protein–lipid interaction (Sanders, J.C. (1066) 102)

Freeze-fracture; Polymorphism; Stratum corneum lipid; Barrier function; Ceramide; Hexagonal phase (Abraham, W. (1068) 189)

1-Hexanol; Partition coefficient; Lipid membrane (Fraser, D.M. (1069) 53)

Gramicidin conformation; Phosphatidylcholine; Bilayer; CD (Morrow, M.R. (1070) 209)

NMR imaging
Hypoxia; Hypoxic recovery; Phosphoarginine; ATP; NMR, in vivo; (Mussel) (Fan, T.W.-M. (1092) 39)

NMR, in vivo
Hypoxia; Hypoxic recovery; Phosphoarginine; ATP; NMR imaging; (Mussel) (Fan, T.W.-M. (1092) 39)

NMR, ^{15}N-
Cerebral glutamine; Hyperammonemia; Portacaval shunt; Hepatic encephalopathy; (Rat brain) (Kanamori, K. (1096) 270)

NMR, ^{23}Na-
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Alkaline metal ion; (Skeletal muscle) (Timonin, I.M. (1066) 43)

NMR, ^{31}P-
Photophosphorylation; Adenylate kinase; Chromatophore; ATPase, H^{+}-; (*C. vinosum*, *C. tepidum*) (Nozawa, T. (1060) 189)

Ether phospholipid; Lipid polymorphism; Microscopy; Synchrotron radiation; X-ray diffraction (Lohner, K. (1061) 132)

Membrane fusion; Virus; LUV; Fusion peptide; Fusion protein; (Sendai virus); (Measles virus) (Yeagle, P.L. (1065) 49)

1-Palmitoyl-2-oleoylphosphatidylcholine vesicle; Melittin; Electrostatic effect; Potential change; CD; Electrophoretic mobility (Beschiaschvili, G. (1068) 195)

Monoacylglycerol; Phosphatidylcholine; Phase behavior; Freeze-fracture; Dynamic light scattering (Yin, C.-C. (1070) 33)

Casein phosphopeptide; Calcium phosphate precipitation; Intestinal protein digestion; β-Casein (Sato, R. (1077) 413)

Phospholipid; Myelin (Kilby, P.M. (1085) 257)

pH, intracellular; Metabolite concentration; Circadian rhythm; (*N. crassa*) (Pilatus, U. (1091) 349)

Phospholipid metabolism; Phorbol ester; Sphingosine; (B lymphocyte) (Miccheli, A. (1093) 29)

Fatty acid; Glycolysis; Glycogen; Smooth muscle; Muscle contraction; (Pig) (Barron, J.T. (1093) 125)

Absolute quantification; ATP; Phosphocreatine; Inorganic phosphate; Spectroscopy, ^{31}P-NMR; (Rat thigh muscle) (De Bisschop, E. (1094) 147)

Lipid metabolism; Choline; Ethanolamine; NMR, ^{13}C-; T47D; Spheroid (Ronen, S.M. (1095) 5)

NMR, ^{31}P, in vivo
Polyphosphate; (*Dunaliella salina*) (Bental, M. (1092) 21)

NMR spectroscopy
Phospholipid; Isotope; (Rat testis) (Van der Grond, J. (1074) 189)

NMR, two dimensional
Des-(B26–B30)-insulin; Sequence-specific resonance assignment (Hua, Q.-X. (1078) 101)

Nojirimycin
N-Acetylglucosaminidase; Affinity purification; Inhibition; 2-Acetamido; (Bovine) (Legler, G. (1080) 89)

Non-bilayer phase
Membrane fusion; Phospholipase C; Diacylglycerol; Fast freezing; Freeze-fracture (Burger, K.N.J. (1068) 249)

Non-coding region
Growth hormone; cDNA cloning; Molecular evolution (Yamakawa, M. (1087) 247)

Noncompetitive inhibition
Acetylcholinesterase; Enzyme-substrate inhibitor complex; Inhibition by substrate; Regulatory site (Cohen, S.G. (1076) 112)

Non-denaturing gradient gel electrophoresis
Reconstituted HDL; LDL; HDL subclass; Spontaneous phospholipid transfer (Jonas, A. (1085) 71)

Nonenzymatic glycation
Collagen; Sex steroid (Reiser, K.M. (1097) 55)

Non-esterified fatty acid
HDL; Cholesteryl ester transfer protein; (Human) (Lagrost, L. (1082) 204)

HDL; Cholesteryl ester; LDL; Cholesteryl ester transfer protein (Lagrost, L. (1085) 209)

Nonfiltering perfused kidney
Basolateral endocytosis; Peritubular clearance; Insulin receptor; (Rat) (Sato, H. (1073) 442)

Non-heme iron
EPR; Photosystem II; Quinone-iron acceptor complex; (*P. laminosum*) (Corrie, A.R. (1057) 384)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Erythrocyte; (Human) (Leclerc, L. (1062) 35)

Arachidonic acid; Lipoxygenase; Iron-binding domain (Matsuda, S. (1084) 202)

Nonionic detergent
Erythrocyte plasma membrane; Calcium pump; ATPase, Ca^{2+}-; Enzyme solubilization; Enzyme crystallization; (Porcine blood) (Pikuła, S. (1061) 206)

Non-isotopic DNA detection
DNA modification; Carbodiimide; Antibody binding; Enzyme immunoassay; Synthetic oligomer (Wani, A.A. (1088) 259)

Non-lysosomal compartment
HDL; Endocytosis; Internalization; Resecretion; Fluorescein; pH probe (Rahim, A.T.M.A. (1082) 195)

Nonmuscle cell
Tropomyosin; cDNA; 3′ Untranslated region (Takenaga, K. (1087) 101)

Non-photochemical quenching
Photosynthesis; Carotenoid; Zeaxanthin; Chlorophyll fluorescence; pH gradient (Noctor, G. (1057) 320)

Non-selective cation channel
Amiloride; Alveolar epithelium; Ion channel; Sodium channel (Orser, B.A. (1094) 19)

Cystic fibrosis; Patch clamp; Chloride channel; Nasal epithelium (Jorissen, M. (1096) 52)

Nonsteroidal anti-inflammatory drug
Cyclooxygenase; Peroxidase; Aspirin; Heme; Co-oxidation (Smith, W.L. (1083) 1)

Non transferrin-bound iron
Membrane transport; Iron transport; Active transport; Transferrin; Reticulocyte; (Rabbit) (Qian, Z.M. (1073) 456)

Non-uniform translation
ribosomal mRNA; (Rat liver mitochondria) (Rabinovich, Y.M. (1089) 193)

Norepinephrine
α_1-Adrenergic receptor; Ketogenesis; Oleate metabolism; Glucose release; cyclic AMP; (Rat hepatocyte) (Nomura, T. (1092) 94)

Norepinephrine release
Volatile anesthetic; Protein kinase C; Fura-2; Calcium concentration, cytoplasmatic (Tas, P.W.L. (1091) 401)

Northern blot analysis
Sucrase-isomaltase; cDNA; mRNA; Sucrose induction; (Rat intestine) (Broyart, J.-P. (1087) 61)

Northern blotting
Retinoic acid receptor; Epidermal growth factor; Serum-free defined culture; Salivary gland adenocarcinoma cell line; (Human) (Kurokawa, R. (1095) 63)

N_{14} profile
Chaos; Correlation integral; Tertiary structure; Structural quantity (Kubota, Y. (1079) 73)

NRDS
Surfactant; ARDS; Protein inhibition; Lysophosphatidylcholine (Cockshutt, A.M. (1086) 63)

N-terminal sequence
Lactic acid bacterium; Aspartate; Racemase; Purification (Okada, H. (1078) 377)

Nuclear division
Cell cycle; Calcium ion; Calmodulin; Calcium ion concentration, transient; Cytosolic free calcium concentration; DNA replication; Mitosis (Anraku, Y. (1093) 169)

Nuclear envelope
Nuclear localization; Nuclear location signal receptor (Pandey, S. (1063) 81)

Nuclear extract
Eukaryotic transcription; Transcription factor; Phospholipid; Cardiolipin; Chlorpromazine; (Ehrlich ascites tumor cell) (Hirai, H. (1088) 191)

Nuclear gene
Cytochrome *c* oxidase; Presequence; cDNA (Smith, E.O. (1089) 266)

Nuclear lipid
Lymphocyte; Stimulated lymphocyte; Leukemic lymphocyte; Squalene; Alkylglycerol (Aliau, S. (1085) 350)

Nuclear localization
Nuclear envelope; Nuclear location signal receptor (Pandey, S. (1063) 81)

Nuclear location signal receptor
Nuclear localization; Nuclear envelope (Pandey, S. (1063) 81)

Nuclear matrix protein
DNA binding activity; Numatrin (Feuerstein, N. (1087) 127)

DNA binding protein; Polyacrylamide gel electrophoresis (Denovan-Wright, E.M. (1088) 25)

Nuclear Overhauser effect
Lectin; Chemical modification; NMR; Mushroom; (*I. resinosum*) (Kawagishi, H. (1076) 179)

Nuclear protein
Poly(ADP-ribosylation); Estrogen stimulation; Oviduct; (Lizard) (Quesada, P. (1079) 79)

Nuclease S1
rRNA; RNA, 16S; Ribosome; (*E. coli*) (Rahman, M.A. (1087) 212)

Nucleation time
Fibronectin; Vesicle; Cholesterol gallstone (Chijiiwa, K. (1086) 44)

Nuclei
Fatty acid; Phospholipid; (Regenerating rat liver); (Rat ascites hepatoma) (Ishihara, H. (1084) 53)

Nucleic acid
Nitroxide; Single-stranded DNA binding protein; Electron spin resonance; (*E. coli*) (Bobst, E.V. (1078) 199)

Nucleic acid metabolism
Cell cycle; RNA polymerase activity; (Rat thymocyte) (Schöbitz, B. (1095) 95)

Nucleic acid sequence
Horseradish peroxidase; cDNA; (*Armoracia rusticana*) (Bartonek-Roxå, E. (1088) 245)

Lysozyme gene; Genomic organization; (Chicken) (Nakano, T. (1090) 273)

Nucleolin
rRNA; Primary cultured hepatocyte; Glucocorticoid; EGF; Insulin (Suzuki, N. (1092) 367)

Nucleoside analog
Adenosine deaminase; 2′,3′-Dideoxyadenosine (Nair, V. (1078) 121)

Nucleoside diphosphate diglyceride
Human immunodeficiency virus; AZT; Pyrophosphatase; Mitochondrion (Van Wijk, G.M.T. (1084) 307)

Nucleoside diphosphate kinase
Succinate thiokinase; Nucleotide specificity; Mitochondrial matrix; (Heart); (Liver); (Rabbit) (Kadrmas, E.F. (1074) 339)

GTP-binding protein; Thiophosphorylation; (Spinach leaf) (Nomura, T. (1077) 47)

Nucleoside transport
Glucose transport; Immunoadsorption; Monoclonal antibody; (Human erythrocyte) (Jhun, B.H. (1061) 149)

Nitrobenzylthioinosine; *p*-Chloromercuriphenylsulfonate; Dipyridamole; (Hagfish red blood cell) (Fincham, D.A. (1069) 123)

Nucleoside triphosphatase
ATPase, (Ca^{2+}-Mg^{2+})-; Ectoenzyme; Small artery (Plesner, L. (1067) 191)

ATPase, (Ca^{2+}-Mg^{2+})-; Ectoenzyme; Small artery (Juul, B. (1067) 201)

Nucleosome
cis-Diamminedichloroplatinum (II); Chromatin structure; LMG protein (Hayes, J. (1089) 377)

5′-Nucleotidase
Semen; Phosphatidylinositol phospholipase C; Triton X-114; (Human seminal plasma) (Fini, C. (1075) 20)

Pancreatic adenocarcinoma; Glycosylation; Subcellular localization; (Human) (Flocke, K. (1076) 273)

Tetrameric structure; (Human seminal plasma) (Minelli, A. (1080) 252)

Nucleotide
Thymidine; Density-inhibition; Degradation (Nakano, S. (1094) 263)

Nucleotide binding
1-Anilinonaphthalene-8-sulfonic acid; Fluorometry; Enzyme regulation; Rubisco activase (Wang, Z.-Y. (1079) 263)

aminoacyl-tRNA synthetase; Protein structure; Structural motif; Evolution (Leberman, R. (1089) 287)

Nucleotide binding site
Hypoxanthine-guanine phosphoribosyltransferase (HPRT); Phosphoribosyltransferase; Tryptic peptide (Keough, D.T. (1096) 95)

Nucleotide conformation
Ribonuclease F_1; Ribonuclease T_1; 2′-GMP; Raman spectroscopy; Enzyme structure (Takeuchi, H. (1078) 307)

Nucleotide metabolism
Chemotherapy; Immunodeficiency; HIV (Carson, D.A. (1091) 22)

Nucleotide sequence
Isoamylase gene; Gene expression; DNA sequence; (*P. amyloderamosa*) (Chen, J.H. (1087) 309)

Phosphoglucose isomerase; Promoter (Claes, V. (1087) 339)

Transposable phage; D3112 left end; Repressor protein; IHF; (*Pseudomonas*) (Autexier, C. (1088) 147)

Prothymosin α; Thymosin α_1; Amino acid sequence; Secondary structure (Schmidt, G. (1088) 442)

Principal σ factor gene; Heat shock promoter; (*Pseudomonas aeruginosa*) (Tanaka, K. (1089) 113)

Glutathione *S*-transferase; cDNA; Yeast; (*Issatchenkia orientalis*) (Tamaki, H. (1089) 276)

Cytochrome *c* oxidase; Subunit VI; cDNA; (*Dictyostelium discoideum*) (Rizzuto, R. (1089) 386)

Ribosome; rRNA, 18S (Baldridge, G.D. (1089) 396)

Cyanide-resistant respiration; Alternative oxidase; cDNA; Mitochondrion; (*Hansenula anomala*) (Sakajo, S. (1090) 102)

Cytochrome *c* oxidase; Subunit IV; cDNA; Cleavable presequence; Mitochondrion; (*Dictyostelium discoideum*) (Rizzuto, R. (1090) 125)

Glutathione *S*-transferase; (Chicken liver) (Liu, L.-F. (1090) 343)

trpE; Molecular cloning; Anthranilate synthase I; (*Bacillus caldotenax*) (Shiratsuchi, A. (1090) 348)

Nucleotide sequencing
Polymerase chain reaction; Mitochondrial DNA; Mitochondrial myopathy; Myoglobinuria (Ohno, K. (1090) 9)

Nucleotide specificity
Succinate thiokinase; Nucleoside diphosphate kinase; Mitochondrial matrix; (Heart); (Liver); (Rabbit) (Kadrmas, E.F. (1074) 339)

Nucleotide structure
NMR, ^{1}H-; Electrochemical reduction; Nicotinamide adenine nucleotide (Ragg, E. (1076) 37)

Nucleotide transport
Periodic-catastrophic transport; Catastrophic transport; AMP; Amantadine; Phosphoramidate (Bergstrom, D.E. (1061) 95)

Nucleotide uptake
DNA uptake; DNA binding protein; (*N. crassa*) (Tóth, G. (1063) 247)

Nucleus
Chromatin; Solubility; Decondensation; (Rat thymocyte) (Engelhardt, M. (1087) 173)

Amsacrine; Topoisomerase II-DNA complex formation enhancing factor; Casein kinase II; (Murine mastocytoma cell) (Darkin-Rattray, S.J. (1088) 285)

Endo-exonuclease; (Rat liver) (Hibino, Y. (1088) 305)

Numatrin
DNA binding activity; Nuclear matrix protein (Feuerstein, N. (1087) 127)

O

Obesity
Atherosclerosis; Benfluorex; Diabetes; Hypercholesterolemia; Hypertriglyceridemia; Insulin resistance; Triacylglycerol synthesis (Brindley, D.N. (1085) 119)

Gold-thioglucose; Insulin sensitivity; Brown adipose tissue; Lipogenesis; Liver; White adipose (Blair, S.C. (1085) 385)

Oct-1
NFI; NFIII; Adenovirus; DNA replication (Coenjaerts, F.E.J. (1090) 61)

Octanol/water interface
Membrane transport; Interfacial transport; Unstirred layer thickness; Liquid-liquid extraction (Miller, D.M. (1065) 69)

Membrane transport; Interfacial transport; Unstirred layer thickness; Liquid-liquid extraction; Diffusion coefficient; Octanol/water partition coefficient (Miller, D.M. (1065) 75)

Octanol/water partition coefficient
Membrane transport; Interfacial transport; Octanol/water interface; Unstirred layer thickness; Liquid-liquid extraction; Diffusion coefficient (Miller, D.M. (1065) 75)

Octyl glucoside
Absorption coefficient; Glucose transporter; High performance molecular-sieve chromatography; Low-angle laser light scattering; Laser light scattering; Phospholipid; (Human erythrocyte) (Lundahl, P. (1067) 177)

Sphingomyelin; Phosphatidylcholine; Ceramide; Diacylglycerol (Hanada, K. (1086) 151)

Odorant
Liposome; Membrane potential; Membrane fluidity (Enomoto, S. (1062) 7)

Okadaic acid
Phosphatidylcholine biosynthesis; Protein phosphatase; (Rat liver) (Hatch, G.M. (1081) 25)

Calcium; Secretion; Protein phosphatase, type 2A (Wu, Y.N. (1092) 384)

Elongation factor 2; Initiation factor-2; Microcystin; Protein phosphorylation; Protein synthesis (Redpath, N.T. (1093) 36)

Insulin; Protein phosphatase; Hepatocyte (Agius, L. (1095) 243)

Oleate metabolism
Norepinephrine; α_1-Adrenergic receptor; Ketogenesis; Glucose release; cyclic AMP; (Rat hepatocyte) (Nomura, T. (1092) 94)

Oleic acid
Lipoprotein secretion; Apolipoprotein B accumulation; Albumin; Glucose (Arrol, S. (1086) 72)

Oleosin
Amphipathic protein; Lipid storage body; Apolipoprotein (Murphy, D.J. (1088) 86)

Oligomeric structure
ATP synthase, F_1-; Heterodimer (Harada, M. (1056) 279)

Creatine kinase; Mitochondrion; (Rat brain) (Kottke, M. (1061) 215)

Oligomycin
ATPase, Na^+/K^+- (Esmann, M. (1064) 31)

Oligomycin sensitivity conferring protein; ATP synthase; DCCD; Energy coupling; Proton translocation (Joshi, S. (1067) 255)

ATPase, Na^+/K^+-; Phosphatase, K^+-; Choline; Dimethyl sulfoxide; Sodium ion; Potassium occlusion (Robinson, J.D. (1069) 281)

ATPase, Na^+/K^+-; Reaction sequence; Sodium ion; Potassium ion; Conformational change; Ion transport (Pratap, P.R. (1069) 288)

Oligomycin activation
ATPase, Na^+/K^+- (Plesner, L. (1076) 421)

Oligomycin sensitivity conferring protein
ATP synthase; DCCD; Energy coupling; Oligomycin; Proton translocation (Joshi, S. (1067) 255)

Oligophosphoglyceroyl ATP
Purine nucleotide; ATP localization; (Rat liver mitochondria) (Patel, B. (1074) 178)

Oligosaccharide
Chain conformation; Amphiphilic surface; Hydrophobic bonding; Lectin-sugar binding; Antigen–antibody interaction; Cell surface oligosaccharide (Sundari, C.S. (1065) 35)

Characterization; Glycoprotein; (*D. melanogaster*) (Williams, P.J. (1075) 146)

Galactosyltransferase; Lactation; Tammar (Messer, M. (1077) 79)

Cyclodextrin glucanotransferase; Ascorbic acid 2-*O*-α-glucoside; Ascorbic acid; Transglucosylation; α-Glucosidase (Tanaka, M. (1078) 127)

Oligosaccharide, neutral
α-D-GalNAc unit; Carbohydrate structure; NMR, ^{13}C-; Colostrum, bovine (Urashima, T. (1073) 225)

Oligosaccharide synthesis
Cell growth; FM3A mutant; G258; Lipid synthesis (Nishikawa, Y. (1091) 135)

Olivoponto-cerebellar atrophy
Glutamate dehydrogenase; cDNA cloning; Amino acid sequence; Signal peptide; Gene expression; (Mouse) (Tzimagiorgis, G. (1089) 250)

Omega-3 fatty acid
Platelet; Fish oil; Thrombosis; Icosapentaenoic acid (Wojenski, C.M. (1081) 33)

Omega oxidation
Fatty acid oxidation; Lauric acid; Cytochrome *P*-450; Alcohol dehydrogenase; Peroxisome; (Rat hepatocyte) (Christensen, E. (1081) 167)

Omeprazole
Proton pump inhibitor; ATPase, H^+/K^+-; ATPase, H^+-; Bafilomycin (Mattsson, J.P. (1065) 261)

OmpT
SecY; Protein secretion; Reconstitution; Anti-SecY antibody (Nishiyama, K.-i. (1065) 89)

Oncogene
1,25-Dihydroxyvitamin D-3 receptor; Steroid hormone; Retinoic acid; Triiodothyronine; (Human osteosarcoma cell) (Mahonen, A. (1088) 111)

One-dimensional diffusion
Prolyl hydroxylase; Collagen synthesis (De Jong, L. (1079) 103)

Ontogeny
Pulmonary surfactant; Surfactant apoprotein (Ogasawara, Y. (1083) 252)

Oocyte
Glucose transport; Sodium ion/glucose cotransporter; Expression; Flux; Voltage clamp; (*Xenopus laevis*) (Weber, W.-M. (1063) 73)

Glutamate cotransport; Sodium ion dependence; Voltage clamp; (*Xenopus*) (Steffgen, J. (1066) 14)

Lipophorin; LDL; Lipid transfer particle; (*M. sexta*); (Man); (Insect) (Liu, H. (1085) 112)

Oocyte maturation
Erbstatin; Tyrphostin; *cdc2* kinase; *mpk* kinase (Daya-Makin, M. (1093) 87)

Myelin basic protein kinase; $p44^{mpk}$ kinase (Sanghera, J.S. (1095) 153)

[^{18}O]Oxygen labeling
Phospholipase D; Phosphodiester bond; Phosphatidylcholine; Phosphatidic acid; Signal transduction (Holbrook, P.G. (1084) 155)

opa
Male specific; (Adult); (*Drosophila*) (Grabowski, D.T. (1090) 115)

Operon
lac operon; Gene regulation; DNA binding protein (Khoury, A.M. (1087) 55)

Opioid neuropeptide
Biotinidase; Aminopeptidase; Exo-peptidase (Oizumi, J. (1074) 433)

Optical absorption
EPR; Nitrosyl complex; Cytochrome *c'*; (*Ach. xylosoxidans*) (Iwasaki, H. (1058) 79)

Ribulose-1,5-bisphosphate carboxylase; Rubisco; Intermediate; Cobaltous ion; EPR (Janson, K. (1080) 40)

Optical cross-section
Photosynthetic unit; Photosystem; Reaction center; Chlorophyll; Antenna; (*Chlorella*) (Greenbaum, N.L. (1057) 195)

Optical fiber
Optical recording; Action potential; Voltage-sensitive dye; Membrane fluorescence; Frog heart (Bowmaster, T.A. (1091) 9)

Optical recording
Optical fiber; Action potential; Voltage-sensitive dye; Membrane fluorescence; Frog heart (Bowmaster, T.A. (1091) 9)

Optical spectroscopy
Lipopolysaccharide; Phase transition; Liposome; Lipid bilayer (Brandenburg, K. (1069) 1)

Optoacoustic spectroscopy
Photosynthesis; Photosystems I & II; Energy storage; Light state transition; (Cyanobacteria) (Mullineaux, C.W. (1060) 315)

Organic acid
Hyperpolarization; pH effect; Sodium–potassium ion exchange; Basolateral membrane potential; Membrane potential; Proximal tubule; (*Necturus* kidney) (Granitzer, M. (1066) 111)

Organic media
Salt hydrate; Water activity; Peptide synthesis (Kuhl, P. (1078) 326)

Organic solvent-soluble lipase
Lipase; Thermostability; Enzymatic reactivity; Detergent (Tsuzuki, W. (1083) 201)

Orientation
ATPase, H^+/K^+-; Phosphorylation; Detergent; Free fatty acid (Swarts, H.G.P. (1070) 283)

Trichopolyn I; Hypelcin A; Phosphatidylcholine bilayer; Permeability; Conformation (Matsuzaki, K. (1070) 419)

L-Ornithine
Parotid cell; L-Arginine; Amylase release (Blachier, F. (1091) 151)

L-Arginine; L-Citrulline; Polyamine; (Rat enterocyte) (Blachier, F. (1092) 304)

Ornithine decarboxylase
Polyamine; Translational control; Polysome profile (Stjernborg, L. (1090) 188)

Ornithine decarboxylase antizyme; Hepatocyte; Putrescine; (Decay in *X. laevis*) (Baby, T.G. (1092) 161)

Polyamine; Difluoromethyl ornithine; Pancreatic growth; Thyroxine; Enzyme (Lin, C.-H. (1093) 65)

Ornithine decarboxylase antizyme
Hepatocyte; Putrescine; Ornithine decarboxylase; (Decay in *X. laevis*) (Baby, T.G. (1092) 161)

Osmolality pressure
Renin secretion; Calcium; Renin-angiotensin-aldosterone system (Fray, J.C.S. (1097) 243)

Osmolarity
P-glycoprotein; L-Leucine transport; ATP; Verapamil; Quinidine (Horio, M. (1061) 106)

Osmotic fragility
$(n-3)$ Fatty acid; Icosapentaenoic acid; Docosahexaenoic acid; Phospholipid; Erythrocyte (Hagve, T.-A. (1084) 251)

Osmotic lysis
Chromaffin granule; Nigericin; Ionophore A23187; Catecholamine; Chromogranin A (Engel, J. (1064) 155)

Osmotic pressure
Electron transfer chain; Membrane function; Sugar transport; (*E. coli*) (Houssin, C. (1056) 76)

Osmotic strength
Calcium influx; Catecholamine secretion; Nicotinic receptor; Voltage-dependent calcium channel; (Chromaffin-cell) (Heldman, E. (1091) 417)

Osmotic stress
Triton X-100 micelle; Phase separation; Poly(ethylene glycol); Cloud point (Yamazaki, M. (1063) 175)

Liposome; Glycerol; Surface potential; Permeability; Merocyanine 540 (Biondi, A.C. (1069) 5)

Osseous matrix
Alkaline phosphatase; *p*-Nitrophenyl phosphate; Hydrophobic chromatography; Divalent ion; (Rat) (Say, J.C. (1074) 256)

Osteoarthritis
Cartilage (Kempson, G.E. (1075) 223)

Osteoblastic cell, MC3T3E$_1$
Prostaglandin $F_{2\alpha}$; Parathyroid hormone; Protein kinase C; cyclic AMP; (Mouse) (Wada, S. (1074) 182)

Ouabain
ATPase activity; Sodium concentration; (Rat nephron) (El Mernissi, G. (1064) 205)

Ovalocytosis
Malaria; (*P. falciparum*) (Husain-Chishti, A. (1096) 263)

Overexpression
Aspartate; Racemase; Gene cloning; Sequence; (*Streptococcus thermophilus*) (Yohda, M. (1089) 234)

Overproduction
Nitrate reductase; Molybdoenzyme; Bacterial respiration; Denitrification; (*Pseudomonas*) (Blümle, S. (1057) 102)

Oviduct
Poly(ADP-ribosylation); Nuclear protein; Estrogen stimulation; (Lizard) (Quesada, P. (1079) 79)

Ovomucoid
Egg-white trypsin inhibitor; Structural domain; Conformation; Equilibrium studies; Kinetic studies; Protein denaturation (Das, B.K. (1076) 343)

Ovulation
Cyclooxygenase; Transcriptional regulation; Dexamethasone; Renal function; Parturition; Inflammation; (3T3 fibroblast); (HL-60); (U937); (Endothelial cell); (MC3T3-E1 cell) (DeWitt, D.L. (1083) 121)

Oxalate binding
Urolithiasis; Pyridoxine deficiency; Intestinal brush-border membrane; (Kinetic analysis) (Koul, H.K. (1064) 184)

Oxidase
Peroxisome; Dicarboxylic amino acid; Zellweger syndrome; Excitotoxicity; (Human liver) (Van Veldhoven, P.P. (1073) 203)

Oxidation
Autoxidation; Glyceraldehyde; ATPase; Monosaccharide; (Red blood cell) (Mira, M.L. (1060) 257)

Nitroxide spin label; Hydroxylamine; Reduction; EPR; (Proxyl) (Sentjurc, M. (1073) 329)

Plantacyanin; Copper transfer; Copper thionein; Cytochrome oxidase; Cardiolipin (Nersissian, A.M. (1076) 337)

Aspartate aminotransferase; Heterogeneity; Molecular form; Storage; (Chicken liver) (Imperial, S. (1077) 72)

Soybean leghemoglobin α; Reduction; Copper(II); Iron(III) (Bakan, D.A. (1079) 182)

β-Oxidation
Glial cell; Peroxisome; (Rat brain) (Lageweg, W. (1085) 381)

Gene characterization; 3-Oxoacyl-CoA; Thiolase deficiency; Peroxisome; (Human) (Bout, A. (1090) 43)

Oxidative damage
Hydrogen peroxide; Erythrocyte; (Human) (Chen, M.-j. (1066) 193)

Oxidative decarboxylation
3,4-Dihydroxymandelic acid; *p*-Benzoquinone methide; Electrochemical oxidation; 3,4-Dihydroxybenzaldehyde; *o*-Benzoquinone (Czapla, T.H. (1077) 400)

Oxidative inactivation
Enzyme; *N*-Chloramine; Metal-catalyzed oxidation (Maier, K. (1079) 238)

Oxidative injury
Alveolar type II cell; Lamellar body; Lung surfactant; Lysozyme; Ozone (Shelley, S.A. (1096) 338)

Oxidative modification
Erythrocyte membrane; Diamide; Electroporation; Leakage; Colloid-osmotic lysis; Phloretin (Deuticke, B. (1067) 111)

Oxidative phosphorylation
Uncoupler; Uncoupling activity; Metabolism; Fungicide (Guo, Z.-j. (1056) 89)

Structure–activity relationship, quantitative; Uncoupler; (Mitochondria) (Guo, Z.-j. (1059) 91)

Cadmium ion; Phosphate transport; Uncoupling; Phosphate/proton symporter; (Rat liver mitochondria) (Koike, H. (1060) 75)

Dynamic model; Thermodynamics; Respiration (Korzeniewski, B. (1060) 210)

NAD-linked dehydrogenase; Calcium ion flux, control (Moreno-Sánchez, R. (1060) 284)

ATP synthesis; ATP synthase, F_1F_0-; ADP/ATP translocator; Mitochondrion; Lateral diffusion coefficient; Proton transfer (Gupte, S.S. (1069) 131)

Oxidative stress
Heme catabolism; Biliverdin reductase; Protein antigenicity; Thiol-disulfide regulation; (Rat liver) (Frydman, J. (1076) 321)

Hemoglobin; Erythrocyte; Hemolysis; Hydrogen peroxide; (Mouse) (Kruckeberg, W.C. (1094) 288)

Oxidized LDL
Iron; Copper; Lipid peroxidation; Phosphate (Kuzuya, M. (1084) 198)

Oxidized linoleate
13-Hydroxyoctadecadienoate; Colonic mucosal metabolism; 13-Hydroxyoctadecadienoate dehydrogenase (Earles, S.M. (1081) 174)

Oxidized low-density lipoprotein
Acetylated low-density lipoprotein receptor; Atherosclerosis; (Human endothelial cell) (Kume, N. (1091) 63)

Oxidoreductase reactivity
Cytochrome *c*; Amino acid sequence; (*N. winogradskyi*); (*T. novellus*) (Yamanaka, T. (1058) 48)

2-Oxo acid dehydrogenase complex
Dihydrolipoamide acyltransferase; Mitochondrial ribosomal protein; Protein sequence similarity (Russell, G.C. (1076) 225)

3-Oxoacyl-CoA
Gene characterization; Thiolase deficiency; β-Oxidation; Peroxisome; (Human) (Bout, A. (1090) 43)

Oxonol
Bisoxonol; Exocytosis; Mast cell; Membrane potential; Sodium pump; Potassium (Bronner, C. (1070) 321)

Oxygen
δ-Aminolevulinic acid; Porphyria, acute intermittent; Lead poisoning; Reactive oxygen species; Mitochondrial damage; (Rat liver mitochondria) (Hermes-Lima, M. (1056) 57)

Oxygen, active species
Luminol chemiluminescence; Menadione; Hydrogen peroxide; NADH : menadione oxidoreductase; Yeast cell (Yamashoji, S. (1059) 99)

Oxygen affinity
Hemoglobin Calais; Human hemoglobin variant; Beta-chain; HPLC, RP- (Wajcman, H. (1096) 60)

Oxygenated sterol
Antiestrogen; Antiestrogen-binding site; Ligand specificity (Lin, L. (1082) 177)

Oxygenation
Potassium/chloride cotransport; Hemoglobin; Physiological role; (Trout red cell) (Borgese, F. (1066) 252)

Oxygen binding
Hemoglobin; Antarctica; Cold-adapted teleost; Primary structure (Caruso, C. (1078) 273)

Oxygen carrier
Hemoglobin; Sickle hemoglobin; Polymerization; Porphyrin; Modification of protein (Adachi, K. (1079) 268)

Fluorocarbon; Lipid vesicle; Freeze-fracture; Phospholipid emulsion (Postel, M. (1086) 95)

Oxygen concentration
Oxygen diffusion; Carotenoid; Lipid bilayer; Spin label; EPR (Subczynski, W.K. (1068) 68)

Oxygen consumption
Perfused brain; Tissue space; Electroencephalogram; (Rat) (Harvey, S.A.K. (1073) 486)

Oxygen diffusion
Oxygen concentration; Carotenoid; Lipid bilayer; Spin label; EPR (Subczynski, W.K. (1068) 68)

Oxygen evolution
Manganese; Photoactivation; Photosystem II; Photosynthesis (Miyao, M. (1056) 47)

Photosystem II; Chlorophyll fluorescence; Water splitting; (Inside-out thylakoid) (Delrieu, M.J. (1057) 78)

Photosystem II; Betaine; (Spinach thylakoid) (Papageorgiou, G.C. (1057) 361)

Photosystem II; Manganese binding; Electron transfer kinetics; Flash absorption spectroscopy; $P680^+$ reduction kinetics (Hoganson, C.W. (1057) 399)

Calcium; Manganese; Chloride; Photosystem II; Polypeptide; EPR multiline signal (Yocum, C.F. (1059) 1)

Photosynthesis; Absorption change; Hydroxylamine; Manganese; S state; (*Synechococcus*) (Kretschmann, H. (1059) 208)

Cytochrome *b*559; Manganese-stabilizing 33 kDa protein; Photosystem II; Radiation inactivation; (Spinach) (Takahashi, M. (1059) 361)

Photosynthesis; Photosystem II; Protein, 33 kDa; (*Synechocystis* 6803) (Mayes, S.R. (1060) 1)

Manganese; Photoactivation; Photosynthesis; (Wheat) (Tamura, N. (1060) 51)

Oxygen evolution, stabilization
Immobilization; Cross-linking; Extrinsic 33 kDa protein; Protein, 47 kDa; Protein stoichiometry (Enami, I. (1060) 224)

Oxygen-evolving complex
Electron transport; Photosystem II; Luminescence; Electric field effect; (Spinach chloroplast) (Vos, M.H. (1056) 27)

Oxygen-evolving system
Photosystem II; Herbicide resistant mutant; (Cyanobacterium) (Kirilovsky, D. (1060) 37)

S state; Absorption spectroscopy; Manganese; Photosystem II center (Lavergne, J. (1060) 175)

Oxygen free radical
Rifamycin SV; Metal ion; Glutathione; Cell viability; Carbohydrate metabolism; (Rat hepatocyte) (Sáez, G.T. (1092) 325)

Oxygen radical
Erythrocyte; Anion transport; Phenylhydrazine (Petty, H.R. (1064) 308)

Xanthine dehydrogenase; Xanthine oxidase; Type II pneumocyte; Catalase; (Lung) (Panus, P.C. (1091) 303)

Lipid peroxidation; Protein thiol oxidation; DNA strand break; Poly(ADP-ribose) polymerase (Kirkland, J.B. (1092) 319)

Oxygen saturation
5-Lipoxygenase; Sulfidopeptide-leucotriene; Arachidonic acid; 5-Hydroxyicosatetraenoic acid; Mucosal blood flow; Gastric ulcer (Pasechnikov, V.D. (1097) 45)

Oxygen toxicity
Paw edema; Polymorphonuclear leukocyte; Diamine oxidase; Superoxide dismutase (Ando, Y. (1073) 374)

Oxyntomodulin (19–37)
Glucagon; Somatostatin release; Inositol phosphate; Calcium ion; (RIN T3 cell) (Tani, T. (1095) 249)

Oxysterol
Aldehyde dehydrogenase; Inhibition; Cholesta-3,5-dien-7-one (Ryzlak, M.T. (1079) 203)

Sterol synthesis; Sterol; (Yeast) (Casey, W.M. (1081) 279)

Oxytocin
Calcium ion transport; Sarcoplasmic reticulum (Magocsi, M. (1063) 7)

Ozone
Alveolar type II cell; Lamellar body; Lung surfactant; Lysozyme; Oxidative injury (Shelley, S.A. (1096) 338)

P

P450IIIA
Cytochrome *P*-450; cDNA sequence; (Dog); (*Liver*) (Ciaccio, P.J. (1088) 319)

P515
ATP synthesis; CF_0-F_1 activation; Electrochromism; Proton domain; Chloroplast (Ooms, J.J.J. (1056) 293)

P680
Photosynthesis; Photosystem II; Reaction center; Photoinhibition; β-Carotene; Primary donor (Telfer, A. (1060) 106)

$P680^+$ reduction kinetics
Photosystem II; Oxygen evolution; Manganese binding; Electron transfer kinetics; Flash absorption spectroscopy (Hoganson, C.W. (1057) 399)

P700
Electrochromism; Chlorophyll *a* monomer; Special pair; Charge transfer; Stark effect (Krawczyk, S. (1056) 64)

Photosystem I; Reaction center; Core protein; Iron-sulfur centers F_A and F_B; Iron-sulfur reconstitution; (*Synechococcus* sp. PCC 6301, *psaC* protein) (Mehari, T. (1056) 139)

Charge recombination; Flash absorption spectroscopy; Phylloquinone; Potentiometry; EPR (Bottin, H. (1057) 331)

Photosystem I; Reaction center; Core protein; Iron-sulfur center; Psa protein; (Cyanobacteria); (*Synechococcus* sp. PCC 6301) (Li, N. (1059) 215)

Photosystem I; Chlorophyll *a*; Heat stability; (*S. elongatus*); (Spinach) (Ikegami, I. (1059) 275)

P700 redox state
Photosystem I; Variable fluorescence at 758 nm; Cyanobacterium (Shubin, V.V. (1060) 28)

PACAP analog
Adenylate cyclase; Pituitary; Helodermin; Vasoactive intestinal peptide analog; Peptide receptor; (Human SUP-T1 lymphoblast) (Gourlet, P. (1066) 245)

Pactamycin
Cycloheximide; Protein synthesis; mRNA decay; Transcription; (*Dictyostelium discoideum*) (DeSilver, D.A. (1089) 309)

PAF
Transbilayer movement; Membrane phospholipid asymmetry; Merocyanine 540 (Bratton, D.L. (1062) 24)

1-Radyl-2-acetyl-*sn*-glycerophosphocholine; Arachidonic acid; Icosapentaenoic acid; Phorbol myristate acetate; (Vascular endothelial cell) (Garcia, M.C. (1083) 37)

Human neutrophil; Phospholipase A_2; 5-Lipoxygenase; Acetyltransferase; Alkylacylglycerol (Bauldry, S.A. (1084) 178)

Prostaglandin; Arachidonic acid; GPC, 1-alkyl-2-arachidonoyl; Estradiol; (Oophorectomized rat uterus) (Nakayama, R. (1085) 235)

Thromboxane A_2; *N*-Formylmethionylleucylphenylalanine; (Human polymorphonuclear neutrophil) (Kishino, J. (1092) 169)

Alveolar type II cell; Cytochrome *P*-450; Xenobiotic metabolism; Pneumocyte (Rabovsky, J. (1095) 223)

PAF-acether
Lyso-PAF-acether : acetyl-CoA acetyltransferase; Human polymorphonuclear neutrophils (Ninio, E. (1085) 136)

PAF agonist
PAF antagonist; Conformation; Electrostatic map, three-dimensional; Synthesis (Lamotte-Brasseur, J. (1085) 91)

PAF antagonist
PAF agonist; Conformation; Electrostatic map, three-dimensional; Synthesis (Lamotte-Brasseur, J. (1085) 91)

PAF synthesis
Endothelium; Thrombin; Calcium; Protein kinase C; cyclic AMP (Heller, R. (1093) 55)

Paired helical filament
Alzheimer's disease; Neurofibrillary tangle; Neuritic plaque; β-Amyloid (Crowther, R.A. (1096) 1)

Palindrome
Prolactin; Genomic sequence; (Carp) (Chen, H.-T. (1088) 315)

Palmitic acid
NMR, ^{13}C- (Langlais, D.B. (1073) 236)

Pulmonary surfactant; Survanta; Surfactant inhibition; Respiratory distress syndrome (Cockshutt, A.M. (1085) 248)

Essential fatty acid; Myocardial CoA; Pyruvate (Saddik, M. (1086) 217)

Palmitic acid transport
Erythrocyte ghost; Efflux kinetics (Bojesen, I.N. (1064) 297)

Palmitoleic acid series
Cardiolipin; Fat deficiency; Fatty acid positional distribution; Dihomo-γ-linolenic acid (Wolff, R.L. (1082) 136)

1-Palmitoyl-2-oleoylphosphatidylcholine vesicle
Melittin; Electrostatic effect; Potential change; CD; NMR, ^{31}P-; Electrophoretic mobility (Beschiaschvili, G. (1068) 195)

Pancreas
Kallikrein; Prokallikrein (Al-Hamidi, A.A.A. (1075) 88)

Glutathione; Glutathione *S*-transferase; Fatty acid ethyl ester synthase (Singhal, S.S. (1079) 285)

5-Lipoxygenase; Arachidonic acid; Leukotriene; Acinar cell (Natsui, K. (1085) 241)

Manganese; Phosphorylation; Calmodulin; Elongation factor 2 (Knight, S.A.B. (1092) 196)

Pancreatic acinar cell
Protein synthesis; Carbachol; Cholecystokinin (Perkins, P.S. (1092) 145)

Pancreatic acini
Cholecystokinin internalization; Biotin-streptavidin technology; Amylase secretion; Inositol phosphate; (Rat) (Winand, J. (1080) 181)

Pancreatic adenocarcinoma
5′-Nucleotidase; Glycosylation; Subcellular localization; (Human) (Flocke, K. (1076) 273)

Pancreatic B cell
Chloride deficiency; Acetylcholine (Hermans, M.P. (1092) 205)

Pancreatic growth
Polyamine; Ornithine decarboxylase; Difluoromethyl ornithine; Thyroxine; Enzyme (Lin, C.-H. (1093) 65)

Pancreatic lipase
Gastric lipase; Enzyme inactivation (Gargouri, Y. (1085) 322)

Papain
Aldehyde; Binding study; NMR (Hanzlik, R.P. (1073) 33)

Cathepsin; Fluorometry; Cysteine proteinase; Lysosomal enzyme (Tchoupé, J.R. (1076) 149)

QSAR; *N*-Benzoylglycine ester; Enzymic hydrolysis; SAR; Glycinate ester (Compadre, C.M. (1079) 43)

PAP-R
Asparin, 1 and 2; Bryodin-L; Colocin, 1 and 2; Lychnin; Mapalmin; Ribosome-inactivating protein; RNA *N*-glycosidase (Bolognesi, A. (1087) 293)

Paracellular pathway
Potassium diet; Aldosterone; Transcellular pathway; (Rat jejunum) (Capurro, C. (1065) 1)

Parallel sequential-superexchange mechanism
Photosynthesis; Reaction center; Electron transfer; (Bacteria) (Bixon, M. (1056) 301)

Parasite–host interaction
Malaria; Host cell alteration; Phospholipid flip-flop; (Erythrocyte membrane); (*P. falciparum*) (Simões, A.P. (1063) 45)

Parathyroid hormone
Prostaglandin $F_{2\alpha}$; Protein kinase C; cyclic AMP; Osteoblastic cell, $MC3T3E_1$; (Mouse) (Wada, S. (1074) 182)

Gene expression; Translation initiation region; (Human gene); (*E. coli*) (Morelle, G. (1089) 320)

Parenteral nutrition
Lipid emulsion; Vesicle; Intralipid ™ (Rotenberg, M. (1086) 265)

Parkinson's disease
Cysteinyldopamine; Cysteinyldopa; Dopamine; Dopa; (Aging) (Carstam, R. (1097) 152)

Parotid
GTPase; β-Adrenoreceptor; Adenylyl cyclase; G protein; Signal transduction; Cholera toxin (Hiramatsu, Y. (1092) 391)

Parotid cell
L-Arginine; L-Ornithine; Amylase release (Blachier, F. (1091) 151)

Partial molar volume
Polyol; Group additivity; Van der Waals radius; Hydrophilic channel; Single file transport (Kiyosawa, K. (1064) 251)

Partial protein sequence
Polygalacturonase; cDNA isolation; DNA sequencing (*Aspergillus niger* RH5344) (Ruttkowski, E. (1087) 104)

Partition
Vanadate; Bromoperoxidase; Alginate; Mucilage; Poly(ethylene glycol); Two-phase system; (*Laminaria*) (Jordan, P. (1073) 98)

Partition coefficient
NMR, ^2H-; 1-Hexanol; Lipid membrane (Fraser, D.M. (1069) 53)

Steroid hormone transport; Serum protein carrier; Liquid membrane system; Binding coefficient (Watanabe, S. (1073) 275)

Aqueous two-phase system; Poly(ethylene glycol); Dipeptide; Free volume (Eiteman, M.A. (1073) 451)

Partition ratio
Suicide substrate; Enzyme kinetics; Enzyme inactivation (Funaki, T. (1078) 43)

Parturition
Cyclooxygenase; Transcriptional regulation; Dexamethasone; Renal function; Ovulation; Inflammation; (3T3 fibroblast); (HL-60); (U937); (Endothelial cell); (MC3T3-E1 cell) (DeWitt, D.L. (1083) 121)

Parvalbumin
Immunoassay; Muscle; Nervous tissue (Inaguma, Y. (1075) 68)

EF-hand; Fluorescence; Calcium binding (Permyakov, E.A. (1076) 67)

Patch clamp
Cation channel; Voltage-dependent gating; Erythrocyte (Christophersen, P. (1065) 103)

Cardiac sodium channel; Sodium ion channel; Fast inactivation; Inactivation; Proteolytic enzyme (Zilberter, Y.I. (1068) 77)

α_2-Adrenoceptor agonist; Clonidine; Epinephrine; Calcium, intracellular; Cell membrane potential (Weiss, H. (1069) 165)

cyclic GMP; Nitroprusside; Ion channel; Renal cell (Marunaka, Y. (1070) 152)

Potassium ion conductance; (Rabbit) (Merot, J. (1070) 387)

Thyroid hormone; Triiodothyronine; Cardiomyocyte; Sodium channel; Slow inactivation (Harris, D.R. (1095) 175)

Cystic fibrosis; Chloride channel; Non-selective cation channel; Nasal epithelium (Jorissen, M. (1096) 52)

Patch-clamp technique
Cation channel; Charybdotoxin; Vacuolar membrane; Tonoplast; (*Chenopodium rubrum*) (Weiser, T. (1066) 109)

Pathogenesis-related protein
Bean leaf protein (Awade, A. (1077) 241)

Paw edema
Oxygen toxicity; Polymorphonuclear leukocyte; Diamine oxidase; Superoxide dismutase (Ando, Y. (1073) 374)

p34cdc2
Cell cycle; Protein phosphatase 2A (Sola, M.M. (1094) 211)

Pentaammine ruthenium-histidine
Transferrin; Fluorescence quenching; Energy transfer (Martin, D.M. (1076) 252)

Pentacoordinate ferric heme
Cyanogen bromide-modified myoglobin; Distal histidine; Magnetic circular dichroism; Myoglobin; (*Aplysia*) (Bracete, A.M. (1080) 264)

Pentafluorophenylalanine
Angiotensin II; Conformation by NMR; Receptor mechanism (Bovy, P.R. (1079) 23)

Pentamidine
Glucose-6-phosphatase; Glucose-6-phosphate transport; Microsome (Scott, H.M. (1097) 31)

Pepsin
Thermal denaturation; Energetic domain (Makarov, A.A. (1078) 283)

Peptaibol
Alamethicin analog; Ion channel; Lipid bilayer; Conductance (Molle, G. (1064) 365)

Peptide
ATPase inhibitor; SPAI-1; ATPase, Na^+/K^+-; Endogenous peptide; (Porcine duodenum) (Ishizuka, N. (1069) 259)

Fibronectin; Platelet (Chen, C.S. (1075) 237)

Peptide, basic
Synthetic peptide; Ion channel; Planar bilayer; Antibacterial activity (Anzai, K. (1064) 256)

Peptide dephosphorylation
Acid phosphatase; Alkaline phosphatase; Synthetic peptide; Substrate specificity; Enzymology (Donella-Deana, A. (1094) 130)

Peptide drug
Liposome; Prolonged circulation; Protein drug; Drug delivery system; Ganglioside G_{M1}; Ricin (Maruyama, K. (1070) 246)

Peptide hydrolysis
Carboxypeptidase; Substrate specificity (Khoshtariya, D.E. (1076) 359)

Peptide inhibitor design
Eukaryotic translation initiation factor 4D; Deoxyhypusyl hydroxylase; Metal binding peptide (Abbruzzese, A. (1077) 159)

Peptide leukotriene
Retinoic acid; Leukotriene C_4 synthetase; 5-Lipoxygenase; (Rat basophilic leukemia-1 cell) (Hamasaki, Y. (1082) 126)

Peptide–lipid interaction
Pore formation; Channel gating; Melittin; Dioleoylphosphatidylcholine (Pawlak, M. (1062) 94)

Membrane potential; Tryptophan fluorescence; Mastoparan X; Mitochondrial presequence; Regulatory peptide (De Kroon, A.I.P.M. (1068) 111)

Peptide mapping
Transthyretin; Basic variant; Amyloidosis; Polymorphism; Plasma protein (Almeida, M.R. (1097) 224)

Peptide–protein interaction
Antigen–antibody interaction; β-Casein; ELISA; Monoclonal antibody; Proteolysis (Kobayashi, T. (1077) 11)

Peptide receptor
Adenylate cyclase; Pituitary; Helodermin; Vasoactive intestinal peptide analog; PACAP analog; (Human SUP-T1 lymphoblast) (Gourlet, P. (1066) 245)

Peptide segment
Platelet-type von Willebrand disease; Platelet aggregation; GPIbα protein; Von Willebrand factor; Conformational energy; Amphipathic structure (Pincus, M.R. (1097) 133)

Peptide sequence
Malic enzyme; Cysteine; (Duck liver) (Satterlee, J. (1079) 247)

Peptide synthesis
5′-AMP bis(α-aminoacyl) esters; Stereoselective (Lacey, J.C. (1076) 395)

Organic media; Salt hydrate; Water activity (Kuhl, P. (1078) 326)

Peptide transport
Substrate specificity; Proton gradient; Electrogenicity; Iodolabeled peptide; Brush-border vesicle; (Rat kidney) (Tiruppathi, C. (1069) 14)

Percoll
Thiazide receptor; Sodium; Chloride; Microsome; (Rabbit kidney) (Ellison, D.H. (1069) 241)

Percoll purification
Δ^5–3β-Hydroxysteroid dehydrogenase-isomerase activity; Leydig cell culture (Murono, E.P. (1091) 55)

Perforin pore
Pore size; Confocal laser scanning microscopy; Fluorescence microphotolysis (Sauer, H. (1063) 137)

Perfused brain
Tissue space; Electroencephalogram; Oxygen consumption; (Rat) (Harvey, S.A.K. (1073) 486)

Perfused heart
Lysophosphatidylcholine; Catabolism; Lysophospholipase; Acyl CoA : lysoPC acyltransferase (Mock, T. (1084) 167)

Perinatal liver development
HMG-CoA reductase; Cholesterol synthesis (Haave, N.C. (1085) 35)

Periodate assay
24-Hydroxylase; Kinetics; Vitamin D (Burgos-Trinidad, M. (1078) 226)

Periodic-catastrophic transport
Nucleotide transport; Catastrophic transport; AMP; Amantadine; Phosphoramidate (Bergstrom, D.E. (1061) 95)

Periplasm
Cytochrome *c*; Denitrification; Methanol dehydrogenase; Nitric oxide binding (Ferguson, S.J. (1058) 17)

Periplasmic binding protein
Glycine betaine; Salt stress; (*R. meliloti*) (Le Rudulier, D. (1061) 197)

Periplasmic space
Cytochrome *c*; Location (Wood, P.M. (1058) 5)

Peritoneal macrophage
Cathepsin D; Mannose receptor (Young, P.R. (1095) 1)

Peritubular clearance
Basolateral endocytosis; Nonfiltering perfused kidney; Insulin receptor; (Rat) (Sato, H. (1073) 442)

Permeability
Antibiotic; Polyene; Selectivity; Channel; Ionophore (Bonilla-Marín, M. (1061) 65)

Proteoliposome; Concanavalin A; D-Glucose; Thermotropic properties (Francis, S.E. (1062) 117)

Erythrocyte membrane; Water; Amide; Urea; Reflection coefficient (Toon, M.R. (1063) 179)

Liposome; Glycerol; Osmotic stress; Surface potential; Merocyanine 540 (Biondi, A.C. (1069) 5)

Tachyplesin I; Lipid membrane; Fluorescence; (*E. coli*) (Matsuzaki, K. (1070) 259)

Trichopolyn I; Hypelcin A; Phosphatidylcholine bilayer; Conformation; Orientation (Matsuzaki, K. (1070) 419)

Amylase secretion; Calcium ion effect; (Mouse pancreatic acinar cell) (Kitagawa, M. (1073) 129)

Urea channel; mRNA; (Amphibian oocyte); (Frog urinary bladder epithelial cell) (Martial, S. (1090) 86)

Permeability barrier
HMG-CoA reductase; Cholesterol; Staphylococcal epidermolytic toxin; Transepidermal water loss (Proksch, E. (1083) 71)

Permeability transition
Mitochondrion; Calcium uniporter regulation; Aqueous space volume (Igbavboa, U. (1059) 339)

Peroxidase
Melanogenesis; Tyrosinase; 5,6-Dihydroxyindole; 5,6-Dihydroxyindole oligomer (D'Ischia, M. (1073) 423)

1-Aminocyclopropane-1-carboxylic acid; Ethylene; Ethylene forming enzyme; Free radical; Hydroperoxide; Manganese (Acosta, M. (1077) 273)

Ligninase; Cytochrome *c* peroxidase; Active site; Heme; Evolution; Structure prediction (Welinder, K.G. (1080) 215)

5-Lipoxygenase; 15-Lipoxygenase; Vitamin E; Hydroperoxyoctadecadienoic acid; Xenobiotic oxidation (Cucurou, C. (1081) 99)

Cyclooxygenase; Nonsteroidal anti-inflammatory drug; Aspirin; Heme; Co-oxidation (Smith, W.L. (1083) 1)

Peroxidation
UVA light; Endogenous photosensitizer; Membrane; Fibroblast (Morlière, P. (1084) 261)

Peroxidative damage
Lipid peroxidation; Protein conformation; Fluorometry; *N*-(1-Pyrene)maleimide; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (1067) 159)

Peroxide
Myoglobin; Hydrogen peroxide; Radical; Electron spin resonance; Phenoxyl; Ferryl (Davies, M.J. (1077) 86)

Phospholipid; Arachidonic acid; Erythrocyte; Acyltransferase; Ethanol (Allen, D.W. (1081) 267)

Peroxisomal biogenesis
Zellweger syndrome; Catalase; Peroxisomal β-oxidation (Wiemer, E.A.C. (1097) 232)

Peroxisomal β-oxidation
Beta oxidation, peroxisomal; Docosahexaenoic acid; Icosapentaenoic acid; Clofibrate; Phospholipid; (Rat. *hepatocyte)* (Grønn, M. (1081) 85)

Fatty acid oxidation; Bile acid formation (Osmundsen, H. (1085) 141)

Peroxisomal disease; Peroxisomal 3-oxoacyl-CoA thiolase; Peroxisome; Fibroblast; (Rhizomelic Chondrodysplasia Punctata) (Heikoop, J.C. (1097) 62)

Peroxisomal biogenesis; Zellweger syndrome; Catalase (Wiemer, E.A.C. (1097) 232)

Peroxisomal disease
Peroxisomal β-oxidation; Peroxisomal 3-oxoacyl-CoA thiolase; Peroxisome; Fibroblast; (Rhizomelic Chondrodysplasia Punctata) (Heikoop, J.C. (1097) 62)

Peroxisomal disorder
Arachidonic acid metabolism; Prostaglandin metabolism; Interleukin-1; Prostaglandin E_2; Lipid metabolism; (Human fibroblast) (Tiffany, C.W. (1096) 41)

Peroxisomal enzyme
Alkyldihydroxyacetone-phosphate synthase; Localization; Acyldihydroxyacetone; TLC; (Rat liver) (Hardeman, D. (1081) 285)

Peroxisomal membrane
Peroxisome; Integral membrane polypeptide; Monoclonal antibody; Clofibrate; (Rat liver) (Imanaka, T. (1062) 264)

Peroxisomal oxidation
Fatty acid oxidation (Schulz, H. (1081) 109)

Peroxisomal 3-oxoacyl-CoA thiolase
Peroxisomal disease; Peroxisomal β-oxidation; Peroxisome; Fibroblast; (Rhizomelic Chondrodysplasia Punctata) (Heikoop, J.C. (1097) 62)

Peroxisomal proliferator
Fatty acid binding protein; Retinol-binding protein; Myelin P_2; Tissue-specific expression; Fatty acid binding site; Differentiation; (Liver, Heart, Muscle, Kidney, Adipocyte) (Veerkamp, J.H. (1081) 1)

Peroxisome
Peroxisomal membrane; Integral membrane polypeptide; Monoclonal antibody; Clofibrate; (Rat liver) (Imanaka, T. (1062) 264)

Oxidase; Dicarboxylic amino acid; Zellweger syndrome; Excitotoxicity; (Human liver) (Van Veldhoven, P.P. (1073) 203)

Omega oxidation; Fatty acid oxidation; Lauric acid; Cytochrome *P*-450; Alcohol dehydrogenase; (Rat hepatocyte) (Christensen, E. (1081) 167)

Fatty acid oxidation; Immunoblotting; Cerebrohepatorenal syndrome; X-linked adrenoleukodystrophy; (Fibroblast) (Reubsaet, F.A.G. (1083) 305)

Beta-oxidation; HETES; Mitochondrion; Mutant (Gordon, J.A. (1085) 21)

β-Oxidation; Glial cell; (Rat brain) (Lageweg, W. (1085) 381)

Aminotriazole; Cholesterol; 4α-Methyl-5α-cholest-7-en-3β-ol; 4,4-Dimethyl-5α-cholest-8-en-3β-ol; Intermediate (Hashimoto, F. (1086) 115)

Uricase; Monoclonal antibody; Liver-specific gene expression; (Hepatocyte); (Rat liver) (Motojima, K. (1087) 316)

Gene characterization; 3-Oxoacyl-CoA; Thiolase deficiency; β-Oxidation; (Human) (Bout, A. (1090) 43)

Acyl-CoA oxidase; Splicing; Regulation; Peroxisome proliferation (Bell, D.R. (1090) 211)

Skin fibroblast; Latency; (Human) (Wolvetang, E.J. (1095) 122)

Peroxisomal disease; Peroxisomal β-oxidation; Peroxisomal 3-oxoacyl-CoA thiolase; Fibroblast; (Rhizomelic Chondrodysplasia Punctata) (Heikoop, J.C. (1097) 62)

Peroxisome proliferation
Clofibrate; (Mouse liver) (Klucis, E. (1074) 294)

Acyl-CoA oxidase; Peroxisome; Splicing; Regulation (Bell, D.R. (1090) 211)

Dehydroepiandrosterone; Enzyme induction; (Rat liver) (Yamada, J. (1092) 233)

Pertussis toxin
Cell membrane potential; Potassium channel; Calcium, intracellular; Inositol phosphate; Phorbol ester (Lang, F. (1073) 600)

Equilibrium dialysis; Binding study; NAD^+ binding; (*B. pertussis*) (Lobban, M.D. (1078) 155)

GTP-binding protein; Bacterial protein; (Mastocytoma P-815 cell) (Takahashi, S. (1093) 207)

Pesticide
Mitochondrial membrane potential; Phosphorylation; (DDT) (Moreno, A.J.M. (1060) 166)

Hexachlorocyclohexane; Erythrocyte membrane; Raman spectroscopy; Thermal transition; Protein structure (Verma, S.P. (1070) 265)

P-glycoprotein
L-Leucine transport; ATP; Verapamil; Quinidine; Osmolarity (Horio, M. (1061) 106)

Drug resistance; Genetics; (Yeast) (Balzi, E. (1073) 241)

Multidrug resistance; Glycosylation; (KB cell); (Human tissue) (Ichikawa, M. (1073) 309)

Verapamil hypersensitivity; Cyclosporin A; Multidrug resistance (Stow, M.W. (1092) 7)

pH
Low temperature; Temperature effect; Lipid rigidity; Charge recombination; Photosynthesis (Sebban, P. (1057) 109)

Endotoxin; Lipopolysaccharide; Calcium ion; Fura-2; BCECF; (Hepatocyte) (Portolés, M.T. (1092) 1)

pH change
Bilayer lipid membrane; pH microelectrode; Protonophore; Membrane potential (Antonenko, Y.N. (1070) 279)

pH dependence
Nitrotyrosine-83 plastocyanin; Cytochrome *c*; Cytochrome *f*; Plastocyanin (Gross, E.L. (1056) 166)

Band 3 protein; Site-directed mutagenesis; (*Xenopus* oocyte) (Kietz, D. (1064) 81)

Phospholipid vesicle; Fusion; Lipid packing; Membrane permeability; Lipid arrangement (Massari, S. (1067) 131)

pH dependency
Lactate transport; Sarcolemmal vesicle; Saturation kinetics; Inhibitor sensitivity; Transport capacity (Juel, C. (1065) 15)

pH effect
NMR; Cytochrome c_2; (*R. rubrum*) (Smith, G.M. (1058) 75)

Erythrocyte; Hemolysis; Iron deficiency; Thalassemia; Spherocytosis; Band 3 protein (Sauer, A. (1063) 203)

Hyperpolarization; Sodium–potassium ion exchange; Organic acid; Basolateral membrane potential; Membrane potential; Proximal tubule; (*Necturus* kidney) (Granitzer, M. (1066) 111)

Phosphate transport; Phosphate starvation; Potassium ion effect; (*C. utilis*) (Bourne, R.M. (1067) 81)

Sodium ion channel; Amiloride sensitivity; Divalent cation; Membrane vesicle; (Pars rectum); (Rabbit proximal tubule) (Blokkebak-Poulsen, J. (1068) 125)

pH gradient
Photosynthesis; Carotenoid; Zeaxanthin; Chlorophyll fluorescence; Non-photochemical quenching (Noctor, G. (1057) 320)

pH induced dissociation
Glucose dehydrogenase; (*B. subtilis*) (Hilt, W. (1076) 298)

pH, intracellular
Vesicle formation; Membrane skeleton; Temperature; Electron microscopy; (Humanerythrocyte) (Lelkes, G. (1065) 135)

Sodium ion–proton exchange; Platelet; Protein kinase C; Phosphatase; Phosphorylation (Livne, A.A. (1068) 161)

NMR, ^{31}P-; Metabolite concentration; Circadian rhythm; (*N. crassa*) (Pilatus, U. (1091) 349)

Platelet; Sodium ion–proton exchange; Phosphoinositide; Protein kinase C; Diacylglycerol; Aggregation (Luzzatto, G. (1084) 78)

Thimerosal; Thymus lymphocyte; Intracellular calcium; Fructose 2,6-bisphosphate (Martín, F. (1091) 110)

Intracellular free calcium; Ion specific microelectrode; Weak acid; Weak base; (*Xenopus* egg) (Grandin, N. (1091) 242)

cyclic AMP; Chloride–bicarbonate exchange; (LLC-PK$_1$ cell) (Harada, H. (1092) 404)

Calcium ion; Calcium mobilization; Chemotaxis; Cell activation; (Human neutrophils) (Fonteriz, R.I. (1093) 1)

pH microelectrode
Bilayer lipid membrane; pH change; Protonophore; Membrane potential (Antonenko, Y.N. (1070) 279)

pH probe
HDL; Endocytosis; Internalization; Non-lysosomal compartment; Resecretion; Fluorescein (Rahim, A.T.M.A. (1082) 195)

pH profile
Enzyme kinetics; Kinetic mechanism; Chemical mechanism; Chemical modification (Karsten, W.E. (1077) 209)

pH regulation
Chloride permeability; Chloride–bicarbonate exchange; Basolateral membrane; (Frog skin) (Lacoste, I. (1063) 103)

Phage G4 DNA
Hairpin structure; Replication origin (Hirao, I. (1087) 199)

Phagocyte
Cytochrome *b*-558; Differentiation; Leukemia cell (Capeillere-Blandin, C. (1094) 55)

Phagocytosis
Circumsporozoite protein; Immunogold electron microscopy; Lipid A; Liposome; Macrophage; Electron microscopy; Liposomal malaria antigen (Verma, J.N. (1066) 229)

Neutrophil; Inositol hexakisphosphate; Priming; Superoxide generation (Eggleton, P. (1094) 309)

Pharmacokinetics
Liposome; Reticuloendothelial system; Mononuclear phagocyte system; Poly(ethylene glycol); Monosialoganglioside (Allen, T.M. (1068) 133)

Liposome; Stability; Blood circulation time; Brush formation (Lasic, D.D. (1070) 187)

Phase behavior
Amphotericin B; Liposome (Hamilton, K.S. (1062) 220)

Hydration; Dipalmitoylphosphatidylcholine (Rudolph, A.S. (1066) 90)

Monoacylglycerol; Phosphatidylcholine; NMR, ^{31}P-; Freeze-fracture; Dynamic light scattering (Yin, C.-C. (1070) 33)

Glycerol; Phosphatidylethanolamine; Cryoprotectant; Phase diagram (Williams, W.P. (1062) 123)

Phase diagram
Glycerol; Phosphatidylethanolamine; Cryoprotectant; Phase behavior (Williams, W.P. (1062) 123)

Lipid bilayer; Phase transition; Molecular interaction; Drug; Anesthetic; Density fluctuation; Interface (Jørgensen, K. (1062) 227)

Calcium ion–lipid interaction; Dimyristoylphosphatidylglycerol; Electric field effect; Lipid phase transition (Thürk, M. (1067) 153)

Calorimetry; Phospholipid; Membrane electrostatics (Silvius, J.R. (1070) 51)

Phase partition
Thylakoid membrane; Photosystem I; Antenna size; (Sonication); (Spinach chloroplast) (Svensson, P. (1060) 45)

Phase partitioning
Liposome; Drug delivery; Prolonged liposomal half-life; Poly(ethylene glycol) (Senior, J. (1062) 77)

Phase separation
Triton X-100 micelle; Osmotic stress; Poly(ethylene glycol); Cloud point (Yamazaki, M. (1063) 175)

Phase transition
Polymorphism; Lipid hydration; Bilayer membrane (Cevc, G. (1062) 59)

Lipid bilayer; Phase diagram; Molecular interaction; Drug; Anesthetic; Density fluctuation; Interface (Jørgensen, K. (1062) 227)

Dimyristoylphosphatidylcholine; Liposome; Insulin; Lytic action; Monomyristoylphosphatidylcholine; Enthalpic change; Gel-liquid crystalline transition (Senisterra, G.A. (1064) 148)

Lipid vesicle; Anesthesia mechanism; Alkanol; Alcohol (Tamura, K. (1066) 219)

Long-chain alcohol; Alkanol; Phospholipid vesicle; Anesthesia cutoff; Lipid bilayer membrane (Suezaki, Y. (1066) 225)

Mixed interdigitated bilayer; Mixed-chain phosphatidylcholine; Phosphatidylcholine; DSC (Lin, H.-n. (1067) 17)

Lipid bilayer; Drug; Anesthetic; Insecticide; Density fluctuation; Interface (Jørgensen, K. (1067) 241)

Lipopolysaccharide; Liposome; Lipid bilayer; Optical spectroscopy (Brandenburg, K. (1069) 1)

Phenobarbital
Cytochrome *P*-450; Hepatocarcinogenesis; Tumor promotion; Development; (Rat) (Lechner, M.C. (1087) 157)

Phenolic uncoupler
Respiratory inhibition; Cytochrome bc_1 complex (Tokutake, N. (1057) 377)

Phenotype
Cytochrome *c*; Sequence classification; Evolutionary map (Ambler, R.P. (1058) 42)

Phenotypic heterogeneity
Niemann-Pick disease type C; Intracellular cholesterol processing; Sphingomyelinase; I-cell disease; Lipid storage disorder; (Skin fibroblast culture) (Vanier, M.T. (1096) 328)

Phenoxyl
Myoglobin; Hydrogen peroxide; Radical; Electron spin resonance; Peroxide; Ferryl (Davies, M.J. (1077) 86)

Phenylacetic acid
Acyl-CoA ligase; Enzymatic assay; (*P. putida*) (Rodríguez-Aparicio, L.B. (1073) 431)

L-Phenylalaline
Exocrine pancreas; Amino acid transport; Protein synthesis; Carbachol; (Rat) (Sweiry, J.H. (1070) 135)

1-Phenyl-2-decanoylamino-3-morpholino-1-propanol
Ceramide; Glucosylceramide; Glucosylceramide glucosidase; Ceramide glucosyltransferase inhibition; L-Cycloserine; Sphingolipid hydrolase; Sphingosine biosynthesis inhibition; Kidney (Shukla, G.S. (1083) 101)

Phenylglyoxal
Deoxyribonuclease; Arginine modification; DNA binding site; DNA protection; (Bovine pancreas) (Liao, T.-H. (1079) 335)

Phenylhydrazine
Erythrocyte; Anion transport; Oxygen radical (Petty, H.R. (1064) 308)

Pheromone response
Cell-type-specific transcription; Mating type; Yeast; (*Saccharomyces cerevisiae*) (Dolan, J.W. (1088) 155)

Phloretin
Erythrocyte membrane; Oxidative modification; Diamide; Electroporation; Leakage; Colloid-osmotic lysis (Deuticke, B. (1067) 111)

Nigericin; Tributyltin; Bilayer lipid membrane; Dipole potential; Ionophore (Antonenko, Y.N. (1070) 474)

Phlorizin binding
Insulin; Glucose transport; Sodium ion/glucose cotransporter; Streptozotocin-induced diabetes; Brush-border membrane vesicle; (Rat small intestine) (Fujii, Y. (1063) 90)

Phorbol ester
Myosin light chain; Multiple phosphorylation; (Aortic smooth muscle) (Rokolya, A. (1057) 276)

Cell membrane potential; Potassium channel; Calcium, intracellular; Inositol phosphate; Pertussis toxin (Lang, F. (1073) 600)

Arachidonic acid metabolism; Hydroxyicosatetraenoic acid; Lipoxygenase; Chiral analysis; (Mouse skin) (Hughes, M.A. (1081) 347)

Glycolysis; Lymphocyte; Concanavalin A; Cell cycle (Marjanovic, S. (1087) 1)

Arachidonic acid; Protein kinase C; Platelet (Banga, H.S. (1091) 115)

α-L-Fucose; Anion exchange; Lectin (Engelmann, B. (1091) 261)

Protein kinase C; B lymphocyte differentiation (Murphy, J.J. (1092) 110)

Regulation; Actin; mRNA; T cell antigen receptor; Protein kinase C; Cyclosporin A (Goodier, M.R. (1092) 124)

NMR, ^{31}P-; Phospholipid metabolism; Sphingosine; (B lymphocyte) (Miccheli, A. (1093) 29)

Adenylate cyclase; Agonist; Desensitization; (Pig epidermis) (Iizuka, H. (1093) 95)

Protein kinase C; Enzyme deactivation (Robles-Flores, M. (1094) 77)

Insulin; Protein kinase C; Sarcolemma; Protein phosphorylation (Walaas, O. (1094) 92)

Connexin 43; Phosphorylation (Oh, S.Y. (1094) 243)

Sphingosine; HPLC; (B lymphocyte) (Miccheli, A. (1095) 90)

Islets of Langerhans; Glyceraldehyde; Protein kinase C; Translocation; Insulin secretion (Persaud, S.J. (1095) 183)

B-chronic lymphocytic leukemia; Fructose 2,6-bisphosphate; Protein kinase C (Colomer, D. (1097) 270)

Phorbol myristate acetate
1-Radyl-2-acetyl-*sn*-glycerophosphocholine; PAF; Arachidonic acid; Icosapentaenoic acid; (Vascular endothelial cell) (Garcia, M.C. (1083) 37)

Diacylglycerol; Molecular species; Phosphatidylcholine turnover (Robinson, M. (1085) 63)

Phosholipase D
Phosphatidic acid; 1,2-Diacylglycerol; Transphosphatidylation; Sarcolemma; Sarcoplasmic reticulum; (Rat heart) (Panagia, V. (1064) 242)

Phosphatase
Calcium ion; Calcium pump; Acidic phospholipid; Erythrocyte; (Human) (Rossi, J.P.F.C. (1061) 49)

Sodium ion–proton exchange; Platelet; Protein kinase C; pH, intracellular; Phosphorylation (Livne, A.A. (1068) 161)

Cytochrome *P*-450; NADPH-cytochrome *c* reductase; Microsome; (Rat liver) (Puntarulo, S. (1074) 12)

Protein phosphatase 2; Protein phosphatase $2B_w$; (*S. cerevisiae*) (Da Cruz e Silva, E.F. (1089) 269)

Intrasteric control; Protein kinase; Inhibitory site; Latent form (Kemp, B.E. (1094) 67)

Phosphatase, K^+-
ATPase, Na^+/K^+-; Cation; Magnesium ion; Choline; Conformational change (Robinson, J.D. (1061) 267)

ATPase, Na^+/K^+-; Choline; Dimethyl sulfoxide; Oligomycin; Sodium ion; Potassium occlusion (Robinson, J.D. (1069) 281)

Phosphate
S-Adenosylmethionine synthetase; Enzyme activation; Product inhibition; Human lymphocyte; Pyrophosphate (De La Rosa, J. (1077) 225)

Oxidized LDL; Iron; Copper; Lipid peroxidation (Kuzuya, M. (1084) 198)

Phosphate, inorganic
ATPase, H^+/K^+-; Phosphorylation; Dephosphorylation; (SCH 28080) (Van der Hijden, H.T.W.M. (1061) 141)

Phosphate / proton symporter
Cadmium ion; Phosphate transport; Uncoupling; Oxidative phosphorylation; (Rat liver mitochondria) (Koike, H. (1060) 75)

Phosphate starvation
Phosphate transport; pH effect; Potassium ion effect; (*C. utilis*) (Bourne, R.M. (1067) 81)

Phosphate transport
Cadmium ion; Uncoupling; Phosphate/proton symporter; Oxidative phosphorylation; (Rat liver mitochondria) (Koike, H. (1060) 75)

Sodium ion dependence; Basolateral membrane; (Pig kidney) (Azzarolo, A.M. (1064) 229)

Phosphate starvation; pH effect; Potassium ion effect; (*C. utilis*) (Bourne, R.M. (1067) 81)

Lipid composition; Hypothyroidism; Mitochondrion; (Rat liver) (Paradies, G. (1070) 180)

Cyanide; Horseradish peroxidase; Lucifer yellow; Sucrose; ATP (Kempson, S.A. (1091) 324)

Glucose-6-phosphatase; Glycogen storage disease; Glucose transport (Burchell, A. (1092) 129)

Phosphate transporter
ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum; Phosphonocarboxylic acid (Stefanova, H.I. (1064) 321)

Sarcoplasmic reticulum; Chloride channel (Stefanova, H.I. (1064) 329)

Phosphatidic acid
Phosholipase D; 1,2-Diacylglycerol; Transphosphatidylation; Sarcolemma; Sarcoplasmic reticulum; (Rat heart) (Panagia, V. (1064) 242)

Phosphoinositide; Antibody to polyphosphoinositide; Phospholipase A_2; Erythrocyte membrane (Gascard, P. (1069) 27)

Phospholipase D; Phosphodiester bond; Phosphatidylcholine; Signal transduction; [^{18}O]Oxygen labeling (Holbrook, P.G. (1084) 155)

Molecular species; 1,2-Diacylglycerol; Mitogen stimulation; (Swiss 3T3 cell) (Divecha, N. (1093) 184)

Phosphatidylcholine
Chimeric protein; Fusion protein; Cytochrome b_5; Hydrophobic domain; β-Galactosidase; Liposome (George, S.K. (1061) 26)

Membrane structure; Lipid bilayer; Small angle neutron scattering (Gordeliy, V.I. (1061) 39)

Phosphatidylethanolamine; Transition temperature; Hexagonal transition; Chainlength dependence (Marsh, D. (1062) 1)

NMR, ^{1}H-; Membrane dynamics; Bilayer; Cholesterol; Spin lattice relaxation time (Han, X. (1063) 129)

Flip-flop; Acyl-CoA; Arginine; Temperature dependence; (Human erythrocyte) (Andrick, C. (1064) 235)

Lipid monolayer; Phospholipase A_2; Gel phase; Line defect; Theoretical model; Computer simulation (Pink, D.A. (1065) 167)

Mixed interdigitated bilayer; Mixed-chain phosphatidylcholine; Phase transition; DSC (Lin, H.-n. (1067) 17)

Cesium; Myogenesis; Myoblast fusion; Cholesterol; Phosphatidylethanolamine; Phosphatidylinositol (Santini, M.T. (1070) 27)

Monoacylglycerol; Phase behavior; NMR, ^{31}P-; Freeze-fracture; Dynamic light scattering (Yin, C.-C. (1070) 33)

Gramicidin conformation; Bilayer; NMR, ^{2}H-; CD (Morrow, M.R. (1070) 209)

Activation; Autolysis; Calcium ion dependence; Phosphatidylinositol; Phosphatidylserine; Proteolysis (Cottin, P. (1079) 139)

Arachidonate; Essential fatty acid; VLDL; Sex related difference (Graham, A. (1081) 151)

Lipid emulsion; HDL; Transfer protein; Cholesteryl ester; Retinyl ester; (Rat); (Rabbit) (Martins, I.J. (1081) 328)

Bile; Taurocholate; Bile duct; Fat absorption (Knox, R. (1083) 65)

Phospholipase A_2; Arachidonoyl residue release; Phosphatidylethanolamine; (Rabbit platelet) (Kim, D.K. (1083) 80)

Hepatic lipase; Apolipoprotein E; Activation; Mixed micelle (Thuren, T. (1083) 217)

Macrophage; Ceramide; Phosphatidylethanolamine; Sphingosine (Stein, Y. (1084) 87)

Phospholipase D; Phosphodiester bond; Phosphatidic acid; Signal transduction; [^{18}O]Oxygen labeling (Holbrook, P.G. (1084) 155)

Essential fatty acid; Intrauterine growth retardation; Phosphatidylethanolamine; (Human placenta) (Percy, P. (1084) 173)

Catabolism; Phosphatidylethanolamine; Methylation; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 167)

Catabolism; Monomethylethanolamine; Dimethylethanolamine; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 178)

Remodeling; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 184)

Sphingomyelin; Ceramide; Diacylglycerol; Octyl glucoside (Hanada, K. (1086) 151)

Neutral lipid storage disease; Triacylglycerol metabolism; Phosphatidylethanolamine; Phospholipid biosynthesis; (Human fibroblast cell line) (Williams, M.L. (1096) 162)

Phosphatidylcholine bilayer
Sterol exchange; Sphingomyelin; Synthetic phospholipid; Cholesterol–phosphatidylcholine interaction; Hydrogen bond (Kan, C.-C. (1066) 95)

Trichopolyn I; Hypelcin A; Permeability; Conformation; Orientation (Matsuzaki, K. (1070) 419)

Phosphatidylcholine biosynthesis
Okadaic acid; Protein phosphatase; (Rat liver) (Hatch, G.M. (1081) 25)

Phosphatidylcholine synthesis
Fatty acid; Cytidylyltransferase; Membrane bound enzyme; Enzyme kinetics (Weinhold, P.A. (1086) 57)

Phosphatidylcholine transacylase
Microsome; Acyl-CoA : lysolipid acyltransferase; Acyl-CoA acyltransferase; Lyso-PC : lyso-PS transacylase; Phospholipid metabolism; (Mouse sciatic nerve) (Cassagne, C. (1070) 119)

Phosphatidylcholine transfer protein
Apical membrane; Basolateral membrane; Dipalmitoylphosphatidylcholine; (MDCK cell) (Zlatkine, P. (1065) 225)

Phosphatidylcholine turnover
Diacylglycerol; Molecular species; Phorbol myristate acetate (Robinson, M. (1085) 63)

Phosphatidylcholine vesicle
Calcium ion adsorption; Surface property; Sonicated vesicle; Fluorescence quenching (Bakás, L.S. (1065) 114)

Phosphatidylethanolamine
Trinitrobenzenesulfonic acid; Phosphatidylserine; Phospholipid molecular species; Membrane lipid asymmetry (Hullin, F. (1061) 15)

Total lipid; Phosphatidylglycerol; Sodium chloride; Hexagonal H_{II} phase; Halophilic bacterium (Sutton, G.C. (1061) 235)

Phosphatidylcholine; Transition temperature; Hexagonal transition; Chainlength dependence (Marsh, D. (1062) 1)

Glycerol; Cryoprotectant; Phase behavior; Phase diagram (Williams, W.P. (1062) 123)

Phospholipid phase transition; Fluid-fluid immiscibility; Cross-linking; Dimethyl suberimidate (Roth, M.R. (1063) 242)

Poly(ethylene glycol); Mononuclear phagocyte system; Liposome; Monosialoganglioside (Allen, T.M. (1066) 29)

Phospholipid; X-ray diffraction; Lipid phase behavior (Sanderson, P.W. (1067) 43)

Phosphatidylserine transfer protein; Phospholipid transport; Fluorescent phospholipid; Yeast cytosol; (*S. cerevisiae*) (Lafer, G. (1069) 139)

Cesium; Myogenesis; Myoblast fusion; Cholesterol; Phosphatidylcholine; Phosphatidylinositol (Santini, M.T. (1070) 27)

Phospholipase A_2; Arachidonoyl residue release; Phosphatidylcholine; (Rabbit platelet) (Kim, D.K. (1083) 80)

Macrophage; Ceramide; Phosphatidylcholine; Sphingosine (Stein, Y. (1084) 87)

Essential fatty acid; Intrauterine growth retardation; Phosphatidylcholine; (Human placenta) (Percy, P. (1084) 173)

Phosphatidylcholine; Catabolism; Methylation; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 167)

Neutral lipid storage disease; Triacylglycerol metabolism; Phosphatidylcholine; Phospholipid biosynthesis; (Human fibroblast cell line) (Williams, M.L. (1096) 162)

Phosphatidylethanolamine methyltransferase
Phospholipid methyltransferase; mRNA abundance; Phospholipid precursor (Gaynor, P.M. (1090) 326)

Phosphatidylglycerol
Total lipid; Phosphatidylethanolamine; Sodium chloride; Hexagonal H_{II} phase; Halophilic bacterium (Sutton, G.C. (1061) 235)

Phosphatidylinositol
Ethanol; Membrane tolerance; Fatty acid; NMR, ^{1}H-; Microsome; Phospholipid; (Rat liver) (Ellingson, J.S. (1062) 199)

Phosphatidylinositol transport protein; Plasma membrane; Endoplasmic reticulum; (Rat liver) (Borror, C.A. (1068) 52)

Cesium; Myogenesis; Myoblast fusion; Cholesterol; Phosphatidylethanolamine; Phosphatidylcholine (Santini, M.T. (1070) 27)

Phospholipase C; Human; Melanoma (Perrella, F.W. (1076) 209)

Activation; Autolysis; Calcium ion dependence; Phosphatidylcholine; Phosphatidylserine; Proteolysis (Cottin, P. (1079) 139)

Deacylation; Phospholipid remodelling (Darnell, J.C. (1084) 269)

Fatty acid remodelling; Phospholipase A; Deacylation; Reacylation (Darnell, J.C. (1084) 279)

Δ-5,11,14-Icosatrienoate; Δ-5,11,14,17-Icosatetraenoate; Phospholipid; Fatty acid; (*P. orientalis*); (*A. vulgaris*) (Berger, A. (1085) 371)

Lysophosphatidylinositol; Lysophosphatidylinositol kinase; Lysophosphatidylinositol monophosphate; Monensin (Wheeler, J.J. (1086) 310)

Tumor necrosis factor α; Phospholipase C; Diacylglycerol; Arachidonic acid; Prostaglandin (Rapuano, B.E. (1091) 374)

Phosphoinositide; Phospholipase C; Signal transducation (Meldrum, E. (1092) 49)

Phosphatidylinositol kinase
Purification; Reconstitution (Jenkins, G.H. (1080) 11)

Phosphatidylinositol 4-phosphate kinase; Phospholipase C; Diacylglycerol kinase; Calcium ion regulation; Tobacco plasma membrane (Kamada, Y. (1093) 72)

Endotoxin; (Rat liver) (Rodriguez de Turco, E.B. (1093) 216)

Phosphatidylinositol 4-phosphate kinase
Phosphatidylinositol kinase; Phospholipase C; Diacylglycerol kinase; Calcium ion regulation; Tobacco plasma membrane (Kamada, Y. (1093) 72)

Phosphatidylinositol phospholipase C
5′-Nucleotidase; Semen; Triton X-114; (Human seminal plasma) (Fini, C. (1075) 20)

Phosphatidylinositol specific phospholipase C
Glycosylphosphatidylinositol; Glycosylphosphatidylinositol-specific phospholipase C; Acetylcholinesterase; (*Cytophaga* sp.) (Jäger, K. (1074) 45)

Glycoprotein; GPIb; Platelet membrane; Phospholipase C; (Human) (Dhar, A. (1091) 15)

Phosphatidylinositol transport protein
Phosphatidylinositol; Plasma membrane; Endoplasmic reticulum; (Rat liver) (Borror, C.A. (1068) 52)

Phosphatidylserine
Trinitrobenzenesulfonic acid; Phosphatidylethanolamine; Phospholipid molecular species; Membrane lipid asymmetry (Hullin, F. (1061) 15)

Lipid asymmetry; Red blood cell (Connor, J. (1066) 37)

Cholesterol; X-ray diffraction; DSC (Wachtel, E.J. (1066) 63)

Membrane topology; Probe; Nicotinic acetylcholine receptor; Acetylcholine receptor; Cyanogen bromide; (*T. californica*) (Blanton, M.P. (1067) 1)

Protein kinase C; Lipid regulation; Activation; Kinetic model; Hill coefficient; Ligand trapping (Sandermann, Jr., H. (1069) 235)

Ethanol; Phospholipase A_2; Phospholipid hydrolysis (Stubbs, C.D. (1070) 349)

Activation; Autolysis; Calcium ion dependence; Phosphatidylcholine; Phosphatidylinositol; Proteolysis (Cottin, P. (1079) 139)

Phosphatidylserine transfer protein
Phospholipid transport; Phosphatidylethanolamine; Fluorescent phospholipid; Yeast cytosol; (*S. cerevisiae*) (Lafer, G. (1069) 139)

Phosphoarginine
Hypoxia; Hypoxic recovery; ATP; NMR, in vivo; NMR imaging; (Mussel) (Fan, T.W.-M. (1092) 39)

Phosphocholine
NMR, ^{1}H-; Liver development; Betaine; Taurine; Glycerophosphorylcholine (Rafter, J.E.M. (1074) 263)

Phosphocreatine
Absolute quantification; ATP; Inorganic phosphate; NMR, ^{31}P-; Spectroscopy, ^{31}P-NMR; (Rat thigh muscle) (De Bisschop, E. (1094) 147)

Phosphodiesterase
Aminophylline; Intracellular cyclic AMP; Phospholipid; Lipid synthesis; (*M. gypseum*) (Bindra, A. (1081) 61)

Phosphodiesterase I
Diadenosine 5′,5‴-P^1,P^3-triphosphate; Dinucleoside triphosphatase; Dinucleoside polyphosphate; (Brain) (García-Agúndez, J.A. (1073) 402)

Phosphodiester bond
Phospholipase D; Phosphatidylcholine; Phosphatidic acid; Signal transduction; [^{18}O]Oxygen labeling (Holbrook, P.G. (1084) 155)

Phospho*enol*pyruvate carboxylase
Malate; Compartmentalization; NMR, ^{13}C-; (*Zea mays L.*) (Chang, K. (1092) 29)

Illumination; Phosphorylation; Protein kinase; (Maize leaf) (McNaughton, G.A.L. (1093) 189)

Phosphoenzyme
ATPase, Na^+/K^+-; AU-1421; Potassium binding site; Site-directed probe; Amine inhibition; (Sheep kidney) (Takada, J. (1065) 153)

Phosphofructokinase
Regulation; Progesterone; Intestine, small; Pregnancy; Lactation (Khoja, S.M. (1074) 357)

Regulation; Isoenzyme; (Rat placenta) (Khoja, S.M. (1076) 61)

Phosphoglucose isomerase
Promoter; Nucleotide sequence (Claes, V. (1087) 339)

2-Phosphoglycerate
Hepatocyte; Mitochondrion; Fructose; Atractyloside (Grivell, A.R. (1059) 45)

3-Phosphoglycerate kinase
Fluorescence; Tryptophan; Succinimide; Protein dynamics (Varley, P.G. (1077) 19)

Phosphoinositidase
Phosphoinositide; Polyphosphoinositide kinase; Transverse tubule; Sarcoplasmic reticulum; ((Frog) skeletal muscle) (Asotra, K. (1081) 229)

Phosphoinositide
Epidermal growth factor; Phospholipase C; Phosphotyrosine; Plasma membrane; A431 cell (Payrastre, B. (1056) 19)

Phosphatidic acid; Antibody to polyphosphoinositide; Phospholipase A_2; Erythrocyte membrane (Gascard, P. (1069) 27)

Polyphosphoinositide kinase; Phosphoinositidase; Transverse tubule; Sarcoplasmic reticulum; ((Frog) skeletal muscle) (Asotra, K. (1081) 229)

Platelet; pH, intracellular; Sodium ion–proton exchange; Protein kinase C; Diacylglycerol; Aggregation (Luzzatto, G. (1084) 78)

Phospholipase C; Phosphatidylinositol; Signal transducation (Meldrum, E. (1092) 49)

Phospholipase
HDL; Cholesterol; Bile acid; (Rat hepatocyte) (Collet, X. (1081) 211)

Phospholipase A_1
Cardiac muscle sarcolemma; Hyperthyroidism; Hypothyroidism; Phospholipid fatty acid composition; Phospholipase A_2; (Rabbit cardiac muscle) (Szymańska, G. (1083) 265)

Phospholipase A_2
Lipid monolayer; Phosphatidylcholine; Gel phase; Line defect; Theoretical model; Computer simulation (Pink, D.A. (1065) 167)

Phosphoinositide; Phosphatidic acid; Antibody to polyphosphoinositide; Erythrocyte membrane (Gascard, P. (1069) 27)

Phospholipid; Lysophospholipid; Calcium ion transport; Liver mitochondrion; (Rat) (Rustenbeck, I. (1069) 99)

Ethanol; Phosphatidylserine; Phospholipid hydrolysis (Stubbs, C.D. (1070) 349)

Myotoxin; Snake venom; Multilamellar liposome; Liposome; (*Bothrops* species) (Díaz, C. (1070) 455)

Calcium ion binding; Catalytic mechanism (Bekkers, A.C.A.P.A. (1076) 374)

Amino acid sequence; Edema induction; Snake venom protein (Liu, C.-S. (1077) 362)

Lung; Calcium ion dependence; Phospholipid binding protein; Monolayer (Tsao, F.H.C. (1081) 141)

Arachidonic acid metabolism; CoA-independent transacylase; Alkyl phospholipid; U937 cell (Winkler, J.D. (1081) 339)

Heparin; Enzyme isoform; (Porcine pancreas) (Diccianni, M.B. (1082) 85)

Gastric mucosa; Subcellular localization; (Rat) (Grataroli, R. (1082) 130)

Icosanoid formation; Immunofluorescence; Immunoelectron microscopy; (Rat vascular smooth muscle cell) (Kurihara, H. (1082) 285)

Arachidonoyl residue release; Phosphatidylcholine; Phosphatidylethanolamine; (Rabbit platelet) (Kim, D.K. (1083) 80)

Cardiac muscle sarcolemma; Hyperthyroidism; Hypothyroidism; Phospholipid fatty acid composition; Phospholipase A_1; (Rabbit cardiac muscle) (Szymańska, G. (1083) 265)

Secretory granule; Granular membrane; Arachidonic acid; (Rat parotid gland) (Mizuno, M. (1084) 21)

Polymerizable phospholipids; Liposome; Uncorking (Davies, D.E. (1084) 29)

Human neutrophil; PAF; 5-Lipoxygenase; Acetyltransferase; Alkylacylglycerol (Bauldry, S.A. (1084) 178)

Gastric lipase; Carboxyl ester lipase; Hydrolysis (Lindström, M.B. (1084) 194)

Phosphatidylinositol; Fatty acid remodelling; Deacylation; Reacylation (Darnell, J.C. (1084) 279)

Phospholipase C; Diacylglycerol lipase; Monoacylglycerol lipase; Arachidonic acid; (Rat macrophage) (Errasfa, M. (1085) 201)

Genomic DNA; Platelet (Kusunoki, C. (1087) 95)

cDNA; Precursor; Neurotoxin; (Snake) (Bouchier, C. (1088) 401)

Protein kinase C; Arachidonic acid release; Glucocorticosteroid; (Basophilic leukemia cell) (Zor, U. (1091) 385)

Prostacyclin; Phospholipase C; Inositol trisphosphate (Kawaguchi, H. (1094) 161)

Phospholipase C; HL60; Inositol phosphate; Guanine nucleotide; *N*-Formylmethionylleucylphenylalanine (Nielson, C.P. (1095) 83)

Phospholipase C
Epidermal growth factor; Phosphoinositide; Phosphotyrosine; Plasma membrane; A431 cell (Payrastre, B. (1056) 19)

Membrane fusion; Diacylglycerol; Non-bilayer phase; Fast freezing; Freeze-fracture (Burger, K.N.J. (1068) 249)

Human; Melanoma; Phosphatidylinositol (Perrella, F.W. (1076) 209)

Phospholipase A_2; Diacylglycerol lipase; Monoacylglycerol lipase; Arachidonic acid; (Rat macrophage) (Errasfa, M. (1085) 201)

Phosphatidylinositol specific phospholipase C; Glycoprotein; GPIb; Platelet membrane; (Human) (Dhar, A. (1091) 15)

Tumor necrosis factor α; Phosphatidylinositol; Diacylglycerol; Arachidonic acid; Prostaglandin (Rapuano, B.E. (1091) 374)

Phosphoinositide; Phosphatidylinositol; Signal transducation (Meldrum, E. (1092) 49)

Phosphatidylinositol kinase; Phosphatidylinositol 4-phosphate kinase; Diacylglycerol kinase; Calcium ion regulation; Tobacco plasma membrane (Kamada, Y. (1093) 72)

Prostacyclin; Phospholipase A_2; Inositol trisphosphate (Kawaguchi, H. (1094) 161)

Phospholipase A_2; HL60; Inositol phosphate; Guanine nucleotide; *N*-Formylmethionylleucylphenylalanine (Nielson, C.P. (1095) 83)

Phospholipase D
Phosphodiester bond; Phosphatidylcholine; Phosphatidic acid; Signal transduction; [^{18}O]Oxygen labeling (Holbrook, P.G. (1084) 155)

Mitogen; Inositol lipid hydrolysis; Second messenger; (Swiss 3T3 fibroblasts) (Cook, S.J. (1092) 265)

Propranolol; Neutrophil; Superoxide; Signal transduction (Gay, J.C. (1095) 236)

Phospholipid
Phosphatidylinositol; Ethanol; Membrane tolerance; Fatty acid; NMR, ^{1}H-; Microsome; (Rat liver) (Ellingson, J.S. (1062) 199)

Malaria; Tryptophan-*N*-formylated gramicidin; Erythrocyte membrane; Growth inhibition; Potassium ion leakage; (*P. falciparum*) (Moll, G.N. (1062) 206)

Cholesterol; Lindane; Membrane fluidity; Brush-border membrane; Basolateral membrane; (Rat kidney) (Pérez-Albarsanz, M.A. (1066) 124)

Cardiolipin; Diphosphatidylglycerol; Deoxycardiolipin; Hydrogen bonding; FTIR (Hübner, W. (1066) 166)

Phosphatidylethanolamine; X-ray diffraction; Lipid phase behavior (Sanderson, P.W. (1067) 43)

Anionic phospholipid; Membrane asymmetry; Surface potential; Yeast (Cerbón, J. (1067) 139)

Absorption coefficient; Glucose transporter; High performance molecular-sieve chromatography; Low-angle laser light scattering; Laser light scattering; Octyl glucoside; (Human erythrocyte) (Lundahl, P. (1067) 177)

Growth hormone-releasing factor; Fluctuation; Rotation; Fluorescence depolarization (Honda, S. (1068) 81)

Amphiphile; Plasmalogen; Molecular dynamics (Han, X. (1069) 37)

Lysophospholipid; Calcium ion transport; Phospholipase A_2; Liver mitochondrion; (Rat) (Rustenbeck, I. (1069) 99)

Calorimetry; Phase diagram; Membrane electrostatics (Silvius, J.R. (1070) 51)

NMR spectroscopy; Isotope; (Rat testis) (Van der Grond, J. (1074) 189)

Aminophylline; Intracellular cyclic AMP; Phosphodiesterase; Lipid synthesis; (*M. gypseum*) (Bindra, A. (1081) 61)

Peroxisomal β-oxidation; Beta oxidation, peroxisomal; Docosahexaenoic acid; Icosapentaenoic acid; Clofibrate; (Rat. *hepatocyte)* (Grønn, M. (1081) 85)

Peroxide; Arachidonic acid; Erythrocyte; Acyltransferase; Ethanol (Allen, D.W. (1081) 267)

Probucol; Hepatocyte primary culture; Lipid secretion; Cholesterol; Triacylglycerol (De La Vega, F.M. (1081) 293)

Cholesteryl ester; Arteriosclerosis; Macrophage (Stein, O. (1082) 33)

Triacylglycerol lipase; HDL; Triacylglycerol; (Rat liver) (Marques-Vidal, P. (1082) 185)

Lung surfactant; Glycerophospholipid; Diether phosphonolipid; Analog; Synthesis; Preparative HPLC; Surface activity; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

Fatty acid; Nuclei; (Regenerating rat liver); (Rat ascites hepatoma) (Ishihara, H. (1084) 53)

Fatty acid remodelling; Deacylation; Reacylation; Acyltransferase (MacDonald, J.I.S. (1084) 105)

($n-3$) Fatty acid; Icosapentaenoic acid; Docosahexaenoic acid; Osmotic fragility; Erythrocyte (Hagve, T.-A. (1084) 251)

Fibroblast; Cholesterol; Efflux; HDL (Bielicki, J.K. (1085) 7)

NMR, ^{31}P-; Myelin (Kilby, P.M. (1085) 257)

Phosphatidylinositol; Δ-5,11,14-Icosatrienoate; Δ-5,11,14,17-Icosatetraenoate; Fatty acid; (*P. orientalis*); (*A. vulgaris*) (Berger, A. (1085) 371)

Lipid–peptide interaction (McLean, L.R. (1086) 106)

Pulmonary surfactant; Surfactant protein D (Kuroki, Y. (1086) 185)

Surfactant; Lung pressure-volume characteristics; Lung stability; Neutral lipid; Respiratory distress syndrome; (Preterm rabbit) (Gorree, G.C.M. (1086) 209)

Eukaryotic transcription; Transcription factor; Nuclear extract; Cardiolipin; Chlorpromazine; (Ehrlich ascites tumor cell) (Hirai, H. (1088) 191)

SV40 T antigen; Replication; Transcription (Hirai, H. (1090) 305)

Surfactant; Protein; Lung; Pulmonary inhibition (Amirkhanian, J.D. (1096) 355)

Phospholipid bilayer
Dioxygen solubility; Winkler titration; DMPC; Coulometric titration (Smotkin, E.S. (1061) 33)

Membrane; Molecular diffusion; Neutron scattering (Tabony, J. (1063) 67)

Microencapsulated liposome system; Lipid–alginate interaction; Bilayer permeability; Pulsatile release (Cohen, S. (1063) 95)

Phospholipid binding
Protein, 23 kDa; (Rat spermatozoa); (Brain cytosol) (Jones, R. (1080) 78)

Phospholipid binding protein
Lung; Calcium ion dependence; Phospholipase A_2; Monolayer (Tsao, F.H.C. (1081) 141)

Phospholipid biosynthesis
Cytochalasin; Colchicine; Calcium; EGTA; Verapamil; Digitonin-permeabilization; Rat glioma cell (George, T.P. (1084) 185)

Neutral lipid storage disease; Triacylglycerol metabolism; Phosphatidylethanolamine; Phosphatidylcholine; (Human fibroblast cell line) (Williams, M.L. (1096) 162)

Phospholipid-dependent calcium-independent protein kinase
Calcium ion/membrane binding protein, 38 kDa; Lipocortin phosphorylation; Protein kinase C; Isoenzyme; (Granulocytes); (Pig) (Farkas, G. (1091) 81)

Phospholipid emulsion
Fluorocarbon; Lipid vesicle; Freeze-fracture; Oxygen carrier (Postel, M. (1086) 95)

Phospholipid exchange protein
Fluorescence; Liposome; (CHO cell) (Sleight, R.G. (1067) 259)

Phospholipid fatty acid composition
Skeletal muscle sarcolemma; Hyperthyroidism; Lipid content; Fluorescence polarization; Membrane fluidity; Calcium pump; ATPase, Ca^{2+}-; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

Cardiac muscle sarcolemma; Hyperthyroidism; Hypothyroidism; Phospholipase A_1; Phospholipase A_2; (Rabbit cardiac muscle) (Szymańska, G. (1083) 265)

Phospholipid flip-flop
Malaria; Parasite–host interaction; Host cell alteration; (Erythrocyte membrane); (*P. falciparum*) (Simões, A.P. (1063) 45)

Phospholipid headgroup
SMS 201–995; Somatostatin analog; Circular dichroism; Fluorescence spectroscopy; NMR, ^{2}H- (Beschiaschvili, G. (1061) 78)

Phospholipid hydrolysis
Ethanol; Phosphatidylserine; Phospholipase A_2 (Stubbs, C.D. (1070) 349)

Phospholipid liposome
Serum–liposome interaction; Photon correlation spectroscopy; Liposome stability; Serum-induced glucose release; (Rat) (Jones, M.N. (1065) 145)

Liver perfusion; Liposome uptake; Blood/liposome interaction; Liposome absorption; (Rat liver) (Nicholas, A.R. (1074) 105)

Phospholipid membrane
Singlet oxygen; 1,3-Diphenylisobenzofuran; Hydrogen peroxide; Hypochlorite (Wozniak, M. (1082) 94)

Phospholipid metabolism
Microsome; Acyl-CoA : lysolipid acyltransferase; Acyl-CoA acyltransferase; Lyso-PC : lyso-PS transacylase; Phosphatidylcholine transacylase; (Mouse sciatic nerve) (Cassagne, C. (1070) 119)

NMR, ^{31}P-; Phorbol ester; Sphingosine; (B lymphocyte) (Miccheli, A. (1093) 29)

Phospholipid methyltransferase
Phosphatidylethanolamine methyltransferase; mRNA abundance; Phospholipid precursor (Gaynor, P.M. (1090) 326)

Phospholipid molecular species
Trinitrobenzenesulfonic acid; Phosphatidylethanolamine; Phosphatidylserine; Membrane lipid asymmetry (Hullin, F. (1061) 15)

Platelet activating factor; 1-*O*-Acyl-2-*O*-acetyl-*sn*-glycero-3-phosphocholine; Endothelial cell; Mass spectrometry; GC-MS (Clay, K.L. (1094) 43)

Phospholipid phase transition
Phosphatidylethanolamine; Fluid-fluid immiscibility; Cross-linking; Dimethyl suberimidate (Roth, M.R. (1063) 242)

Phospholipid precursor
Phosphatidylethanolamine methyltransferase; Phospholipid methyltransferase; mRNA abundance (Gaynor, P.M. (1090) 326)

Phospholipid prodrug
HIV; Hepatitis B virus; AZT; Dideoxycytidine; 3′-Deoxythymidine; Mitochondrion; Microsome (Van Wijk, G.M.T. (1086) 99)

Phospholipid remodelling
Phosphatidylinositol; Deacylation (Darnell, J.C. (1084) 269)

2-Acyl lysoPI; ATP-independent acylation (Darnell, J.C. (1084) 292)

Phospholipid synthesis
Glycero-3-phosphocoline; TLC; (Rat liver mitochondria); (Rat lung mitochondria) (Veldhuizen, R.A.W. (1083) 211)

Phospholipid transfer protein
Transfer protein; Plasmalogen; Pyrene-labeled glycerophospholipid; Fluorescence; Yeast (Szolderits, G. (1063) 197)

Spin label; EPR; Fluorescent phospholipid; (Maize seed) (Geldwerth, D. (1082) 255)

Phospholipid transport
Phosphatidylserine transfer protein; Phosphatidylethanolamine; Fluorescent phospholipid; Yeast cytosol; (*S. cerevisiae*) (Lafer, G. (1069) 139)

Phospholipid vesicle
Spectrin; Cytoskeleton; Liposome; Erythrocyte elasticity (Subbarao, N.K. (1063) 147)

Long-chain alcohol; Alkanol; Phase transition; Anesthesia cut-off; Lipid bilayer membrane (Suezaki, Y. (1066) 225)

Annexin; Membrane fusion; Neutrophil; Membrane (Oshry, L. (1066) 239)

Fusion; Lipid packing; Membrane permeability; pH dependence; Lipid arrangement (Massari, S. (1067) 131)

Antitumor agent; Thermotropic behavior; α-Sarcin (Gasset, M. (1068) 9)

Apolipoprotein transfer; Unilamellar vesicle; Kinetic mechanism (Ibdah, J.A. (1081) 220)

Phosphonocarboxylic acid
ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum; Phosphate transporter (Stefanova, H.I. (1064) 321)

Phosphonocerebroside
Phosphonoglycosphingolipid; *N*-Methylaminoethylphosphonic acid; Crustacean glycolipid; (*E. superba*) (Itonori, S. (1081) 321)

Phosphonoglycosphingolipid
Phosphonocerebroside; *N*-Methylaminoethylphosphonic acid; Crustacean glycolipid; (*E. superba*) (Itonori, S. (1081) 321)

Phosphopantetheine
Ferrichrome synthetase; Multienzyme complex; (*A. quadricinctus*) (Siegmund, K.-D. (1076) 123)

Phosphopeptide
Band 3 protein; Protein structure; Phosphorylation; (Human erythrocyte membrane) (Yannoukakos, D. (1061) 253)

Phosphoprotein
Dentin; Bone; Matrix protein; Hydroxyapatite (Fujisawa, R. (1075) 56)

Phosphoramidate
Nucleotide transport; Periodic-catastrophic transport; Catastrophic transport; AMP; Amantadine (Bergstrom, D.E. (1061) 95)

Phosphorescence at room temperature
Aldolase; NADH binding; Fluorescence spectroscopy and polarization; (Rabbit muscle) (Sytnik, A.I. (1079) 123)

Phosphoribosyltransferase
Hypoxanthine-guanine phosphoribosyltransferase (HPRT); Tryptic peptide; Nucleotide binding site (Keough, D.T. (1096) 95)

Phosphorylase
McArdle's disease; Molecular heterogeneity (McConchie, S.M. (1096) 26)

Phosphorylase *a* phosphatase
Phosphorylase *b* kinase; Muscle contraction; Fatty acid; (Pig vascular smooth muscle) (Barron, J.T. (1073) 550)

Phosphorylase *b′*
Amino-terminus; Serine phosphate site; Ammonium sulfate activation (Leonidas, D.D. (1076) 305)

Phosphorylase *b* kinase
Phosphorylase *a* phosphatase; Muscle contraction; Fatty acid; (Pig vascular smooth muscle) (Barron, J.T. (1073) 550)

Phosphorylase kinase
Calcium ion; Actin; Smooth muscle; (bovine stomach) (Zevgolis V.G. (1091) 222)

Signal network; Signal specifier; Subunit structure; Regulatory domain (Heilmeyer, Jr., L.M.G. (1094) 168)

Phosphorylation
Pesticide; Mitochondrial membrane potential; (DDT) (Moreno A.J.M. (1060) 166)

ATPase, H^+/K^+-; Phosphate, inorganic; Dephosphorylation; (SCH 28080) (Van der Hijden, H.T.W.M. (1061) 141)

Band 3 protein; Protein structure; Phosphopeptide; (Human erythrocyte membrane) (Yannoukakos, D. (1061) 253)

ATPase, Na^+/K^+-; Enzyme conformation; Acetyl phosphate; Inorganic phosphate; (Pig kidney) (Berberián, G. (1063) 217)

Band 3 protein; Phosphotyrosine; Capillary electrophoresis; (Human erythrocyte membrane) (Yannoukakos, D. (1066) 70)

Sodium ion–proton exchange; Platelet; Protein kinase C; Phosphatase; pH, intracellular (Livne, A.A. (1068) 161)

ATPase, H^+/K^+-; Detergent; Orientation; Free fatty acid (Swarts, H.G.P. (1070) 283)

Collagen binding protein; Myoblast (Cates, G.A. (1073) 521)

Vitreous humor; Iris-ciliary complex; Tissue culture; Growth inhibition (Banerjee, A. (1077) 56)

Ribosomal protein; Yeast (Campos, F. (1087) 142)

Calcium; Calmodulin; Microtubule-associated protein 2; Calmodulin-dependent protein kinase II; Inactivation (Katoh, T. (1091) 205)

Manganese; Pancreas; Calmodulin; Elongation factor 2 (Knight, S.A.B. (1092) 196)

Illumination; Protein kinase; Phospho*enol*pyruvate carboxylase; (Maize leaf) (McNaughton, G.A.L. (1093) 189)

Phorbol ester; Connexin 43 (Oh, S.Y. (1094) 243)

Malaria; Erythrocyte; Band 3 protein; Amino terminal extension (Jones, G.L. (1096) 33)

Phosphorylation potential
Freeze-clamped liver; Ethanol; (Hepatocytes) (Spach, P.I. (1056) 40)

Phosphorylation site
Hematopoiesis; Membrane protein; Chromosomal translocation (Hromas, R. (1090) 241)

Herpesvirus infection; Protein kinase; Protein kinase A; Protein kinase C; Synthetic peptide (Leader, D.P. (1091) 426)

Phosphotransferase activity
Alkaline phosphatase; Bone; Kinetic mechanism (Mueller, K. (1076) 308)

Phosphotyrosine
Epidermal growth factor; Phosphoinositide; Phospholipase C; Plasma membrane; A431 cell (Payrastre, B. (1056) 19)

Band 3 protein; Phosphorylation; Capillary electrophoresis; (Human erythrocyte membrane) (Yannoukakos, D. (1066) 70)

Mitogen; MAP kinase; S6 kinase (Sturgill, T.W. (1092) 350)

Tyrosine protein kinase; Progastrin; Sulfotyrosine; Tyrosine protein kinase specificity; (Rat) (Donella-Deana, A. (1095) 75)

Photoacoustic spectroscopy
Senescence; Energy transfer; Photosynthesis; Chlorophyll fluorescence (Gruszecki, W.I. (1056) 173)

Photoactivable phospholipid
Planar bilayer membrane; Cyclic voltametry; Voltametry; Photopolymerization; Ion channel (Borle, F. (1066) 144)

Photoactivation
Manganese; Oxygen evolution; Photosystem II; Photosynthesis (Miyao, M. (1056) 47)

Manganese; Oxygen evolution; Photosynthesis; (Wheat) (Tamura, N. (1060) 51)

Photoactivity
Chlorophyll fluorescence; Light excitation imbalance; Light harvesting complex; Light scattering; Membrane aggregation; (Thylakoid membrane); (Photosystem) (Braun, G. (1060) 303)

Photoaffinity-label
Cap binding; Ultraviolet-crosslinking (Thalmann, E. (1088) 301)

Photoaffinity labeling
Atrazine; Herbicide; Charge recombination; Unspecific binding; Photosystem II concentration (Jursinic, P.A. (1059) 312)

Tricarboxylate carrier; Mitochondrial transport (Szewczyk, A. (1073) 209)

Bile acid binding protein; Rat ileal cytosol; Immunoblotting; Amino acid composition; Amino acid sequence (Lin, M.C. (1078) 329)

Photobilirubin transport
Bilirubin photoisomer; Hepatic transport; (Isolated perfused rat liver) (Pellegrino, J.M. (1074) 25)

Photochemical surface labeling
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Fluorescent dye (Molnar, E. (1068) 27)

Photocleavage
ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; ATPase, H^+/K^+-; Vanadate; Sarcoplasmic reticulum (Molnar, E. (1068) 17)

Photoconversion
Rhodopsin; Acid metarhodopsin; Conformational change; Cephalopod; X-ray scattering; Chromatofocusing (Hiraki, K. (1077) 355)

Photodynamic action
Calcium, intracellular; Membrane potential; Cell injury; Photosensitization; Zinc phthalocyanine disulfonate (Specht, K.G. (1070) 60)

Photoelectric effect
Bacteriorhodopsin; Purple membrane; Action spectrum; Charge displacement current (McIntosh, A.R. (1056) 149)

Photoinhibition
Photosystem II; Absorbance change; Fluorescence induction; Photosystem heterogeneity; Membrane fractionation (Neale, P.J. (1056) 195)

Photosynthesis; Photosystem II; Reaction center; β-Carotene; Primary donor; P680 (Telfer, A. (1060) 106)

Photomodulation
Ion channel; Gramicidin A; Ion transport (Stankovic, C.J. (1061) 163)

Photon correlation spectroscopy
Phospholipid liposome; Serum–liposome interaction; Liposome stability; Serum-induced glucose release; (Rat) (Jones, M.N. (1065) 145)

Photophosphorylation
Adenylate kinase; NMR, ^{31}P-; Chromatophore; ATPase, H^+-; (*C. vinosum*, *C. tepidum*) (Nozawa, T. (1060) 189)

Photopolymerization
Photoactivable phospholipid; Planar bilayer membrane; Cyclic voltametry; Voltametry; Ion channel (Borle, F. (1066) 144)

Photoreceptor
Sodium–calcium ion exchange; Potassium dependence (Friedel, U. (1061) 247)

Photoreduction
Cytochrome b_6f; Resonance Raman; Heme; Cytochrome f (Hobbs, J.D. (1059) 37)

Photosensitization
Calcium, intracellular; Membrane potential; Cell injury; Photodynamic action; Zinc phthalocyanine disulfonate (Specht, K.G. (1070) 60)

Merocyanine 540; EPR; Membrane; Lipid peroxidation (Feix, J.B. (1075) 28)

Rose bengal; Red blood cell; Singlet oxygen; Acetylcholinesterase (Allen, M.T. (1075) 42)

Ascorbate; Blood cell membrane; Hematoporphyrin; Quercetin; α-Tocopherol (Jan, C.-Y. (1086) 7)

Photosynthesis
Manganese; Oxygen evolution; Photoactivation; Photosystem II (Miyao, M. (1056) 47)

Reaction center; Genetic modification; Resonance Raman spectrum; Electron transfer; Pigment–protein interaction (Peloquin, J.M. (1056) 85)

Ferredoxin; Chloroplast enzyme (Knaff, D.B. (1056) 93)

Senescence; Energy transfer; Chlorophyll fluorescence; Photoacoustic spectroscopy (Gruszecki, W.I. (1056) 173)

Phycocyanin; Subunit spectrum; Bleaching; Copper complex (Woo Park, J. (1056) 181)

Bacteriopheophytin; Reaction center; (*Ectothiorhodospira* sp.) (Mar, T. (1056) 190)

Reaction center; Electron transfer; Parallel sequential-superexchange mechanism; (Bacteria) (Bixon, M. (1056) 301)

Chlorophyll; Triplet state (Budil, D.E. (1057) 1)

Mitochondrion; Respiration; Malate-oxaloacetate shuttle; NADH dehydrogenase; NADPH-dehydrogenase; (Plant) (Krömer, S. (1057) 42)

Thylakoid stacking; Photosystem; Lateral heterogeneity; Surface charge; Chlorophyll *a*/*b* protein (Chow, W.S. (1057) 69)

Low temperature; Temperature effect; Lipid rigidity; Charge recombination; pH (Sebban, P. (1057) 109)

Reaction center; CD; Picosecond CD; (*Rb. sphaeroides*) (Xie, X. (1057) 131)

Water oxidation; Proton; Neutral red; Thylakoid stacking (Jahns, P. (1057) 313)

Carotenoid; Zeaxanthin; Chlorophyll fluorescence; Non-photochemical quenching; pH gradient (Noctor, G. (1057) 320)

Light harvesting complex; Pigment–protein interaction; Bacteriochlorophyll; Fourier transform Raman spectroscopy; (*Rb. sulfidophilus*) (Mäntele, W. (1057) 367)

Cytochrome evolution; Cytochrome *c* (Meyer, T.E. (1058) 31)

Bacteriochlorophyll; Exciton interaction (Van Mourik, F. (1059) 111)

Photosystem I; Amino acid sequence; Gene characterization; (Cucumber cotyledons) (Iwasaki, Y. (1059) 141)

Phycocyanin 645; Biliprotein; Exciton migration; Picosecond fluorescence; (*Chroomonas*) (Malak, H. (1059) 165)

Oxygen evolution; Absorption change; Hydroxylamine; Manganese; S state; (*Synechococcus*) (Kretschmann, H. (1059) 208)

Photosystem II; Oxygen evolution; Protein, 33 kDa; (*Synechocystis* 6803) (Mayes, S.R. (1060) 1)

Manganese; Oxygen evolution; Photoactivation; (Wheat) (Tamura, N. (1060) 51)

Phycobilisome; Energy transfer; (Cyanobacterium); *(Synechococcus 7942)* (Bhalerao, R.P. (1060) 59)

Photosystem II; Reaction center; Photoinhibition; β-Carotene; Primary donor; P680 (Telfer, A. (1060) 106)

Thylakoid; Galactolipid; Bilayer; Lipid property (Webb, M.S. (1060) 133)

Photosystem II; D_1-D_2-cyt-*b*-559 reaction center; Reaction center kinetics; Picosecond chlorophyll fluorescence; Charge separation; Energy transfer (Roelofs, T.A. (1060) 237)

Reaction center; Pigment exchange; Pigment–protein interaction; Borohydride modification; Bacteriochlorophyll; Bacteriopheophytin (Struck, A. (1060) 262)

Fluorescence decay; Energy transfer kinetics; Chlorophyll fluorescence; Exciton migration; Kinetic model (Beauregard, M. (1060) 271)

Zeaxanthin; Membrane fluidity; Xanthophyll cycle (Gruszecki, W.I. (1060) 310)

Photosystems I & II; Optoacoustic spectroscopy; Energy storage; Light state transition; (Cyanobacteria) (Mullineaux, C.W. (1060) 315)

Photosynthetic bacterium
Langmuir-Blodgett film; Energy transduction; Bacterial reaction center (Alegria, G. (1057) 239)

Langmuir-Blodgett film; Bacterial reaction center; Chromatophore; Linear dichroism; (*Rps. viridis*) (Alegria, G. (1057) 258)

Electron transfer; Reaction center; (*Chl. aurantiacus*) (Becker, M. (1057) 299)

Energy transfer; Pigment organization; Antenna complex; (*Chloroflexus aurantiacus*) (Griebenow, K. (1059) 226)

Photosynthetic particle
Cross-linking; Electron transfer; Ferredoxin; Flavoprotein; (Cyanobacterium); (*Anabaena* PCC 7119) (Pueyo, J.J. (1059) 149)

Photosynthetic unit
Photosystem; Reaction center; Optical cross-section; Chlorophyll; Antenna; (*Chlorella*) (Greenbaum, N.L. (1057) 195)

Photosystem
Photosynthesis; Thylakoid stacking; Lateral heterogeneity; Surface charge; Chlorophyll *a*/*b* protein (Chow, W.S. (1057) 69)

Photosynthetic unit; Reaction center; Optical cross-section; Chlorophyll; Antenna; (*Chlorella*) (Greenbaum, N.L. (1057) 195)

Photosystem heterogeneity
Photoinhibition; Photosystem II; Absorbance change; Fluorescence induction; Membrane fractionation (Neale, P.J. (1056) 195)

Photosystem I
Reaction center; Core protein; P700; Iron-sulfur centers F_A and F_B; Iron-sulfur reconstitution; (*Synechococcus* sp. PCC 6301, *psaC* protein) (Mehari, T. (1056) 139)

Photosynthesis; Amino acid sequence; Gene characterization; (Cucumber cotyledons) (Iwasaki, Y. (1059) 141)

Reaction center; Core protein; P700; Iron-sulfur center; Psa protein; (Cyanobacteria); (*Synechococcus* sp. PCC 6301) (Li, N. (1059) 215)

P700; Chlorophyll *a*; Heat stability; (*S. elongatus*); (Spinach) (Ikeami, I. (1059) 275)

Variable fluorescence at 758 nm; P700 redox state; Cyanobacterium; (Shubin, V.V. (1060) 28)

Thylakoid membrane; Antenna size; Phase partition; (Sonication); (Spinach chloroplast) (Svensson, P. (1060) 45)

Gene *psaB*; *psaB* gene; Directed mutagenesis; Cyanobacterium; (*A. variabilis*) (Toelge, M. (1060) 233)

Photosystem II
EPR (Miller, A.-F. (1056) 1)

Electron transport; Oxygen-evolving complex; Luminescence; Electric field effect; (Spinach chloroplast) (Vos, M.H. (1056) 27)

Manganese; Oxygen evolution; Photoactivation; Photosynthesis (Miyao, M. (1056) 47)

Photoinhibition; Absorbance change; Fluorescence induction; Photosystem heterogeneity; Membrane fractionation (Neale, P.J. (1056) 195)

Oxygen evolution; Chlorophyll fluorescence; Water splitting; (Inside-out thylakoid) (Delrieu, M.J. (1057) 78)

Q_A; Reconstitution; Low molecular mass protein; *psbL* gene product; L protein (Nagatsuka, T. (1057) 223)

Reaction center; β-Carotene exciton; Spectroscopy; Charge separation (Newell, W.R. (1057) 232)

Oxygen evolution; Betaine; (Spinach thylakoid) (Papageorgiou, G.C. (1057) 361)

EPR; Quinone-iron acceptor complex; Non-heme iron; (*P. laminosum*) (Corrie, A.R. (1057) 384)

Electron transfer; Reaction center; Reconstitution (Chapman, D.J. (1057) 391)

Oxygen evolution; Manganese binding; Electron transfer kinetics; Flash absorption spectroscopy; $P680^+$ reduction kinetics (Hoganson, C.W. (1057) 399)

Calcium; Manganese; Chloride; Oxygen evolution; Polypeptide; EPR multiline signal (Yocum, C.F. (1059) 1)

Light harvesting; Reaction center; Membrane energization (Ehrenheim, A.M. (1059) 106)

Bicarbonate effect; Cyanobacterium; D2 polypeptide; Site-directed mutagenesis; (*Synechocystis* sp. PCC 6803) (Cao, J. (1059) 171)

EPR; Iron-quinone; Reaction center; Halogenated 1,4-benzoquinone; Semiquinone; (Plant) (Hallahan, B.J. (1059) 181)

D1/D2/cyt *b*-559; Reaction center; Serine; Endopeptidase (Misra, A.N. (1059) 239)

Cytochrome *b*559; Manganese-stabilizing 33 kDa protein; Oxygen evolution; Radiation inactivation; (Spinach) (Takahashi, M. (1059) 361)

Photosynthesis; Oxygen evolution; Protein, 33 kDa; (*Synechocystis* 6803) (Mayes, S.R. (1060) 1)

Herbicide resistant mutant; Oxygen-evolving system; (Cyanobacterium) (Kirilovsky, D. (1060) 37)

Energy transfer; Reaction center; (*Synechocystis* 27170) (Post, A.F. (1060) 67)

Bicarbonate; EPR; Reaction center; Iron-quinone complex (Bowden, S.J. (1060) 89)

Photosynthesis; Reaction center; Photoinhibition; β-Carotene; Primary donor; P680 (Telfer, A. (1060) 106)

D_1-D_2-cyt-*b*-559 reaction center; Reaction center kinetics; Picosecond chlorophyll fluorescence; Photosynthesis; Charge separation; Energy transfer (Roelofs, T.A. (1060) 237)

Excitation energy transfer; Fluorescence emission; Antenna model; Light-harvesting chlorophyll *a*/*b* protein complex II; (Spinach and barley thylakoids) (Jennings, R.C. (1060) 245)

Photosystem II center
Oxygen-evolving system; S state; Absorption spectroscopy; Manganese (Lavergne, J. (1060) 175)

Photosystem II concentration
Atrazine; Herbicide; Charge recombination; Unspecific binding; Photoaffinity labeling (Jursinic, P.A. (1059) 312)

Photosystem II heterogeneity
Fluorescence induction; Chlorophyll fluorescence; DCMU (Hsu, B.-D. (1056) 285)

Photosystems I&II
Photosynthesis; Optoacoustic spectroscopy; Energy storage; Light state transition; (Cyanobacteria) (Mullineaux, C.W. (1060) 315)

Phycobilisome
Energy transfer; Photosynthesis; (Cyanobacterium); (*Synechococcus 7942*) (Bhalerao, R.P. (1060) 59)

Phycocyanin
Photosynthesis; Subunit spectrum; Bleaching; Copper complex (Woo Park, J. (1056) 181)

Phycocyanin 645
Biliprotein; Exciton migration; Picosecond fluorescence; Photosynthesis; (*Chroomonas*) (Malak, H. (1059) 165)

Phylloquinone
P700; Charge recombination; Flash absorption spectroscopy; Potentiometry; EPR (Bottin, H. (1057) 331)

Phylogenetic tree
Acrosin; Serine proteinase; Amino acid sequence; Catalytic triad (Klemm, U. (1090) 270)

Physiological role
Potassium/chloride cotransport; Hemoglobin; Oxygenation; (Trout red cell) (Borgese, F. (1066) 252)

Phytase
Alkaline phosphatase; (Intestine) (Yang, W.-J. (1075) 75)

Dietary induction; (Rat intestine) (Yang, W.-J. (1075) 83)

Phytoestrogen
Lignan; Estrogen; Fatty acid; α-Fetoprotein (Garreau, B. (1094) 339)

Picornavirus
Encephalomyocarditis; RNA; Viral RNA; Ribosome binding; Initiation factor (Scheper, G.C. (1089) 220)

Picosecond CD
Photosynthesis; Reaction center; CD; (*Rb. sphaeroides*) (Xie, X. (1057) 131)

Picosecond chlorophyll fluorescence
Photosystem II; D_1-D_2-cyt-*b*-559 reaction center; Reaction center kinetics; Photosynthesis; Charge separation; Energy transfer (Roelofs, T.A. (1060) 237)

Picosecond fluorescence
Phycocyanin 645; Biliprotein; Exciton migration; Photosynthesis; (*Chroomonas*) (Malak, H. (1059) 165)

Pig liver
Cytochrome $P\text{-}450_{14DM}$; Lanosterol 14α-demethylase (Sono, H. (1078) 388)

Pigment composition
HPLC; Bacteriochlorophyll *g*; Bacteriochlorophyll *g* epimer; (*H. chlorum*); (*Hb. mobilis*) (Kobayashi, M. (1057) 89)

Pigment cooxidation
Lipoxygenase; Hemin bleaching; Heme protein bleaching (Macías, P. (1082) 310)

Pigment exchange
Photosynthesis; Reaction center; Pigment–protein interaction; Borohydride modification; Bacteriochlorophyll; Bacteriopheophytin (Struck, A. (1060) 262)

Pigment organization
Energy transfer; Photosynthetic bacterium; Antenna complex; (*Chloroflexus aurantiacus*) (Griebenow, K. (1059) 226)

Pigment–protein interaction
Photosynthesis; Reaction center; Genetic modification; Resonance Raman spectrum; Electron transfer (Peloquin, J.M. (1056) 85)

Photosynthesis; Light harvesting complex; Bacteriochlorophyll; Fourier transform Raman spectroscopy; (*Rb. sulfidophilus*) (Mäntele, W. (1057) 367)

Photosynthesis; Reaction center; Pigment exchange; Borohydride modification; Bacteriochlorophyll; Bacteriopheophytin (Struck, A. (1060) 262)

$p44^{mpk}$ kinase
Myelin basic protein kinase; Oocyte maturation (Sanghera, J.S. (1095) 153)

Pituitary
Adenylate cyclase; Helodermin; Vasoactive intestinal peptide analog; Peptide receptor; PACAP analog; (Human SUP-T1 lymphoblast) (Gourlet, P. (1066) 245)

LHRH; Amplitude; Duration; LH; FSH; Cell culture (Kellom, T.A. (1092) 101)

Placental protein
Plasminogen activator inhibitor; Plasminogen activator (Kiso, U. (1074) 74)

Placental transport
Zinc ion; (Human trophoblast cell) (Mas, A. (1092) 35)

Planar bilayer
Synthetic peptide; Peptide, basic; Ion channel; Antibacterial activity (Anzai, K. (1064) 256)

Cholera toxin; Ionic channel; Lipid membrane (Krasilnikov, O.V. (1067) 166)

Planar bilayer membrane
Photoactivable phospholipid; Cyclic voltametry; Voltametry; Photopolymerization; Ion channel (Borle, F. (1066) 144)

Planar lipid membrane
Bipolar lipid; Electrical breakdown (Melikyan, G.B. (1068) 245)

Planar model membrane
Cell surface immunochemistry; Translational diffusion; Fluorescence microscopy; Fluorescence photobleaching recovery (Timbs, M.M. (1064) 219)

Plantacyanin
Copper transfer; Copper thionein; Oxidation; Cytochrome oxidase; Cardiolipin (Nersissian, A.M. (1076) 337)

Plant ATPase
ATPase, H^+-; Transport ATPase; ATP site; (*A. sativa*) (Roberts, G. (1064) 131)

Plant cell culture
Purine catabolism; Adenine nucleotide; Adenosine; (*C. roseus*) (Yabuki, N. (1073) 474)

Plant enzyme
Lipoxygenase pathway; Hydroperoxide product; Enzyme pathway; Fatty acid hydroperoxide (Gardner, H.W. (1084) 221)

Plant lipid
Lipid composition; Acyl carrier protein; Lipid synthesis (Ohlrogge, J.B. (1082) 1)

Plant virus
Virus; TMV; CCMV; Coat protein; Lipid–protein interaction (Spruijt, R.B. (1065) 217)

Plasma
Heparin; Growth factor; Dithiothreitol; (Liver) (Nagasaki, T. (1094) 330)

Chronic renal failure; Urine; NMR; Betaine; Trimethylamine *N*-oxide; Lactate; Ammonium ion (Bell, J.D. (1096) 101)

Plasma cholesterol
Chylomicron; Lipoprotein remnant; Triacylglycerol metabolism; Cholesteryl ester metabolism; LDL receptor; Lipoprotein lipase; WHHL; (Rabbit) (Mamo, J.C.L. (1081) 241)

Plasmacytomagenesis
Pristane; Alkane; Dioleoylphosphatidylcholine; Liposome; NMR; DSC (Gawrisch, K. (1070) 409)

Plasmalemma redox system
Tetrathiafulvalene cation; (*Hydrodictyon reticulatum*) (Metlička, R. (1069) 175)

Plasma lipoprotein
Lecithin-cholesterol acetyltransferase; HDL; HDL metabolism (Jonas, A. (1084) 205)

Plasmalogen
Phospholipid transfer protein; Transfer protein; Pyrene-labeled glycerophospholipid; Fluorescence; Yeast (Szolderits, G. (1063) 197)

Amphiphile; Phospholipid; Molecular dynamics (Han, X. (1069) 37)

Plasma membrane
Epidermal growth factor; Phosphoinositide; Phospholipase C; Phosphotyrosine; A431 cell (Payrastre, B. (1056) 19)

NADH oxidase; Diferric transferrin; Carcinogen; 2-Acetylaminofluorene; (Rat liver) (Morré, D.J. (1057) 140)

Sterol–phospholipid interaction; Membrane fluidity; Diphenylhexatriene; Membrane organization; (Plant) (Cooke, D.T. (1061) 156)

Spermatozoon; Epididymis; Maturation; Lipid; (Goat sperm) (Rana, A.P.S. (1061) 185)

Yeast; ATPase; Glycoprotein; Membrane domain; Immunogold electron microscopy (Serrano, R. (1062) 157)

ATPase; ATPase activating system; Protein turnover; Protein stability; (*S. cerevisiae*) (Benito, B. (1063) 265)

Cytochrome b_5; Fusion protein; β-Galactosidase; Membrane association; Fluorescence recovery (George, S.K. (1066) 131)

Cerebroside; Ceramide; (Oat root) (Norberg, P. (1066) 257)

Glycine transport; Proteoliposome; Cysteine residue; (Rat brain) (Alcántara, R. (1067) 64)

Cornea; Calmodulin; Epithelium; ATPase; Calcium ion transport (Reinach, P.S. (1068) 1)

Phosphatidylinositol; Phosphatidylinositol transport protein; Endoplasmic reticulum; (Rat liver) (Borror, C.A. (1068) 52)

ATPase, $(Ca^{2+} + Mg^{2+})$-, nonspecific; ATP diphosphohydrolase; ATPase; Ectoenzyme; Myometrium (Magocsi, M. (1070) 163)

Amino acid transport; Threonine; (Human fibroblast) (Bussolati, O. (1070) 305)

Tonoplast; Hexose transporter kinetics; *N*-Ethylmaleimide; (*N. tabacum*) (Verstappen, R. (1073) 366)

Ascorbate; Redox system; HL60 (Alcain, F.J. (1073) 380)

Cholesterol transport; Reverse cholesterol transport; HDL; Surface transfer (Johnson, W.J. (1085) 273)

$n-3$ Polyunsaturated fatty acid; Synaptic vesicle; Lipid composition; Membrane fluidity; Fluorescence polarization; (Rat brain) (Zérouga, M. (1086) 295)

Fibronectin; Indirect immunoperoxidase staining; Lens transparency; Cataract formation; Structural protein; (Human lens) (Babizhayev, M.A. (1096) 139)

Plasma membrane composition
Fish oil; Lipoprotein; LDL receptor activity; (Rat liver) (Tripodi, A. (1083) 298)

Plasma membrane fluidity
Capsaicin; Fluorescence polarization; Anisotropy; Platelet aggregation (Meddings, J.B. (1070) 43)

Plasma prekallikrein
Kallikrein-kinin system; Bacterial proteinase; Pseudomonal infection; Pseudomonal elastase; Pseudomonal alkaline proteinase (Shibuya, Y. (1097) 23)

Plasma protein
Protein; Secretion rate; Microsome, rough; Saponin; Membrane association; (Rat liver) (Myrset, A.H. (1070) 229)

Gene expression; Transcription factor; Deleted mutant; (Bombyx) (Sakurai, H. (1087) 18)

Gene family; Genomic sequence; Promoter; (Silkworm); (*Bombyx mori*) (Mori, S. (1090) 129)

Transthyretin; Basic variant; Amyloidosis; Polymorphism; Peptide mapping (Almeida, M.R. (1097) 224)

Plasma triacylglycerol clearance
Dietary cholesterol; Cholesterol (Quarfordt, S.H. (1082) 247)

Plasmid pSC101
Exonuclease III; DNA replication (Fueki, T. (1089) 325)

Plasmid vector
Ultraviolet radiation; Pyrimidine dimer; Antibody binding; Enzyme immunoassay; Specific gene fragment; DNA blot; Bacterial mutant; DNA damage; Excision repair (Wani, A.A. (1090) 195)

Plasmin
Pseudomonal alkaline proteinase; Metalloproteinase; Fibrinolysis; Pseudomonal infection (Shibuya, Y. (1077) 316)

α-Macroglobulin; Transforming growth factor β_1; Transforming growth factor β_2 (LaMarre, J. (1091) 197)

Plasminogen activator
Plasminogen activator inhibitor; Placental protein (Kiso, U. (1074) 74)

Urokinase (Harvey, S.R. (1078) 360)

Expression; Induction; Methotrexate; Murine hybridoma (Lo, K.-M. (1088) 217)

Plasminogen activator inhibitor
Placental protein; Plasminogen activator (Kiso, U. (1074) 74)

Tissue-type plasminogen activator; Anionic detergent (Gaussem, P. (1079) 321)

Synovial fibroblast; Protein kinase C (Uhl, J. (1097) 283)

Plasminogen activator inhibitor (type 1)
Protein kinase C; cyclic AMP; Endothelial cell (Slivka, S.R. (1094) 317)

Plasticity
Calpain; NCAM; Synaptic; Cytoskeleton (Sheppard, A. (1076) 156)

Plastocyanin
Nitrotyrosine-83 plastocyanin; Cytochrome *c*; Cytochrome *f*; pH dependence (Gross, E.L. (1056) 166)

Platelet
Staphylococcal α-toxin; Membrane permeabilization; Toxin oligomerisation; Adrenocortical Y1 cell; Liposome; Electron microscopy (Thelestam, M. (1062) 245)

Platelet membrane potential; Platelet aggregation; Calcium ion, intracellular; Calcium ion channel; Divalent cation; Dihydropyridine; (Human blood) (Palés, J. (1064) 169)

Sodium ion–proton exchange; Protein kinase C; Phosphatase; pH, intracellular; Phosphorylation (Livne, A.A. (1068) 161)

Concanavalin A receptor; GP IIb–IIIa; G protein; Signal transduction (Torti, M. (1070) 20)

Lipid biosynthesis; Membrane fluidity; Megakaryocyte; (Rat) (Dalal, K.B. (1070) 253)

Monoclonal antibody; Activation (Chau, L.-Y. (1074) 118)

Peptide; Fibronectin (Chen, C.S. (1075) 237)

Omega-3 fatty acid; Fish oil; Thrombosis; Icosapentaenoic acid (Wojenski, C.M. (1081) 33)

pH, intracellular; Sodium–proton exchange; Phosphoinositide; Protein kinase C; Diacylglycerol; Aggregation (Luzzatto, G. (1084) 78)

Phospholipase A_2; Genomic DNA (Kusunoki, C. (1087) 95)

Arachidonic acid; Phorbol ester; Protein kinase C (Banga, H.S. (1091) 115)

Agonist binding; Platelet activation; Ajoene (Apitz-Castro, R. (1094) 269)

Platelet activating factor
Cholesterol; Calcium concentration, cytosolic free; Monocyte; (U937 cell) (Aepfelbacher, M. (1074) 125)

1-Acyl-2-acetyl-*sn*-glycero-3-phosphocholine; Neutrophil (Triggiani, M. (1084) 41)

Tumor necrosis factor α; Liver lipogenesis; Lipid metabolism; (Adrenalectomized rat) (Evans, R.D. (1086) 191)

Catfish secretion; Wound healing (Summers, B. (1091) 329)

1-*O*-Acyl-2-*O*-acetyl-*sn*-glycero-3-phosphocholine; Endothelial cell; Phospholipid molecular species; Mass spectrometry; GC-MS (Clay, K.L. (1094) 43)

Platelet activation
Platelet phosphorylation; Ecto-protein kinase; Ecto-protein phosphatase; ATP; Platelet secretion; (Human platelet) (Naik, U.P. (1092) 256)

Agonist binding; Platelet; Ajoene (Apitz-Castro, R. (1094) 269)

LDL; Epinephrine; Atherosclerosis (Bochkov, V.N. (1097) 123)

Platelet aggregation
Platelet; Platelet membrane potential; Calcium ion, intracellular; Calcium ion channel; Divalent cation; Dihydropyridine; (Human blood) (Palés, J. (1064) 169)

Capsaicin; Plasma membrane fluidity; Fluorescence polarization; Anisotropy (Meddings, J.B. (1070) 43)

ATP diphosphohydrolase; Smooth muscle cell; Endothelial cell; Vascular tone; (Bovine aorta) (Côté, Y.P. (1078) 187)

Fibrinogenase; Antiplatelet effect; Venom; (Snake); (*Naja nigricollis*) (Kini, R.M. (1095) 117)

Platelet-type von Willebrand disease; Peptide segment; GPIbα protein; Von Willebrand factor; Conformational energy; Amphipathic structure (Pincus, M.R. (1097) 133)

Platelet factor 4
NMR, ^{1}H-; Heparin-binding; Histidine assignment (Talpas, C.J. (1078) 208)

Platelet membrane
Receptor binding; Inositol 1,4,5-trisphosphate; (Human) (Hwang, S.-B. (1064) 351)

Phosphatidylinositol specific phospholipase C; Glycoprotein; GPIb; Phospholipase C; (Human) (Dhar, A. (1091) 15)

Platelet membrane potential
Platelet; Platelet aggregation; Calcium ion, intracellular; Calcium ion channel; Divalent cation; Dihydropyridine; (Human blood) (Palés, J. (1064) 169)

Platelet phosphorylation
Ecto-protein kinase; Ecto-protein phosphatase; ATP; Platelet activation; Platelet secretion; (Human platelet) (Naik, U.P. (1092) 256)

Platelet secretion
Platelet phosphorylation; Ecto-protein kinase; Ecto-protein phosphatase; ATP; Platelet activation; (Human platelet) (Naik, U.P. (1092) 256)

Platelet-type von Willebrand disease
Platelet aggregation; Peptide segment; GPIbα protein; Von Willebrand factor; Conformational energy; Amphipathic structure (Pincus, M.R. (1097) 133)

PMA
Protein phosphorylation; Steroidogenesis; hCG; cyclic AMP; (Leydig cell) (Chaudhary, L.R. (1094) 175)

Pneumocyte
PAF; Alveolar type II cell; Cytochrome *P*-450; Xenobiotic metabolism (Rabovsky, J. (1095) 223)

Point mutation
Amyloid protein; Gelsolin; Familial amyloid polyneuropathy type IV (Maury, C.P.J. (1096) 84)

Polarization
Cell-cell contact; Endogenous apical marker; Tumor promotor; (LLC-PK$_1$) (Van Den Bosch, L. (1092) 244)

Pollen
cDNA; Polygalacturonase; (Maize) (Rogers, H.J. (1089) 411)

Poly(A)
Posttranscriptional gene regulation; RNA–protein interaction; mRNA; Translation (Hentze, M.W. (1090) 281)

Polyacrylamide gel electrophoresis
Nuclear matrix protein; DNA binding protein (Denovan-Wright, E.M. (1088) 25)

Poly(ADP-ribose) polymerase
Acceptor site; Automodification domain (Desmarais, Y. (1078) 179)

Gene expression; Liver regeneration; Cell proliferation; DNA replication; DNA repair; Protein modification (Cesarone, C.F. (1087) 241)

Oxygen radical; Lipid peroxidation; Protein thiol oxidation; DNA strand break (Kirkland, J.B. (1092) 319)

Poly(ADP-ribose) synthetase
Erythroid differentiation; Gene regulation; Hemin induction; (Human leukemia cell) (Tomoda, T. (1088) 359)

Poly(ADP-ribosylation)
Nuclear protein; Estrogen stimulation; Oviduct; (Lizard) (Quesada, P. (1079) 79)

Interferon γ; Macrophage activitation; DNA strand break (Berton, G. (1091) 101)

Polyamine
Spermine; Brush-border membrane vesicle; Spermine transport; (Rat intestine) (Iseki, K. (1068) 105)

Citrate synthase; Enzyme activation; Spermine; Citric acid cycle (Yoshino, M. (1073) 200)

Spermidine N^1-acetyltransferase activity; Estrogen; Estrogen induction; Estrous cycle; (Rat uterus) (Sessa, A. (1074) 31)

Ornithine decarboxylase; Translational control; Polysome profile (Stjernborg, L. (1090) 188)

Adenylate cyclase activation; Dithiothreitol; Calcium ion; EDTA; cyclic AMP binding (*D. discoideum*) (Oyama, M. (1092) 85)

L-Arginine; L-Citrulline; L-Ornithine; (Rat enterocyte) (Blachier, F. (1092) 304)

Ornithine decarboxylase; Difluoromethyl ornithine; Pancreatic growth; Thyroxine; Enzyme (Lin, C.-H. (1093) 65)

Polyclonal antibody
Sodium ion/D-glucose cotransporter; D-Glucose cotransport; Brush-border membrane; Immunological recognition; (Pig kidney) (Gérardi-Laffin, C. (1063) 21)

cyclic GMP; Antiidiotypic antibody; Antibody (Filatova, E.A. (1064) 293)

β-Mannosidase; Protein complex; (Guinea pig) (McCabe, N.R. (1077) 133)

Hyaluronan; Hyaluronic acid; Receptor; Endothelial cell; Membrane protein; (Rat liver) (Forsberg, N. (1078) 12)

Polyene
Antibiotic; Selectivity; Permeability; Channel; Ionophore (Bonilla-Marín, M. (1061) 65)

Poly(ethylene glycol)
Macrophage; Bone marrow; Liposome; Reticuloendothelial system; Ganglioside (Allen, T.M. (1061) 56)

Liposome; Phase partitioning; Drug delivery; Prolonged liposomal half-life (Senior, J. (1062) 77)

Liposome; Circulation time; Targeted drug delivery; Drug targeting; Ganglioside (Klibanov, A.L. (1062) 142)

Triton X-100 micelle; Phase separation; Osmotic stress; Cloud point (Yamazaki, M. (1063) 175)

Fusion; Small unilamellar vesicle; Fluorescence dequenching; (*M. capricolum*) (Salman, M. (1063) 209)

Mononuclear phagocyte system; Liposome; Phosphatidylethanolamine; Monosialoganglioside (Allen, T.M. (1066) 29)

Pharmacokinetics; Liposome; Reticuloendothelial system; Mononuclear phagocyte system; Monosialoganglioside (Allen, T.M. (1068) 133)

Vanadate; Bromoperoxidase; Alginate; Mucilage; Partition; Two-phase system; (*Laminaria*) (Jordan, P. (1073) 98)

Aqueous two-phase system; Partition coefficient; Dipeptide; Free volume (Eiteman, M.A. (1073) 451)

Polygalacturonase
(*S. sclerotiorum*) (Waksman, G. (1073) 43)

Partial protein sequence; cDNA isolation; DNA sequencing (*Aspergillus niger* RH5344) (Ruttkowski, E. (1087) 104)

Pollen; cDNA; (Maize) (Rogers, H.J. (1089) 411)

Polyisoprenylation
CAAX motif; Posttranslational modification (Newman, P. (1080) 227)

Poly(L-lysine)
Dipalmitoylphosphatidic acid; Electron density profile; Hydrocarbon chain packing; X-ray diffraction (Takahashi, H. (1069) 229)

Polylysine
DNA; Transfection; Drug delivery; Drug targeting; Gene therapy (Zhou, X. (1065) 8)

Polymerase chain reaction
Metallothionein; cDNA; Polymerase chain reaction; Tandem mass spectrometry; Cadmium; *N*-Acetylation; (Mollusc); (Oyster) (Unger, M.E. (1074) 371)

Metallothionein; cDNA; Polymerase chain reaction; Tandem mass spectrometry; Cadmium; *N*-Acetylation; (Mollusc); (Oyster) (Unger, M.E. (1074) 371)

cDNA library; Sodium-D-glucose; Cotransport; (Rabbit kidney); (Rabbit intestine) (Morrison, A.I. (1089) 121)

Interleukin-2; Lymphokine; DNA sequence (Goodall, J.C. (1089) 257)

Fish metallothionein; cDNA; Sequence homology; 3′ Untranslated variation (Kille, P. (1089) 407)

Nucleotide sequencing; Mitochondrial DNA; Mitochondrial myopathy; Myoglobinuria (Ohno, K. (1090) 9)

Burkitt lymphoma; Ig switch region; (Namalwa) (Middleton, P.G. (1090) 109)

Polymer coated vesicle
Small unilamellar vesicle; Enzyme entrapment (Özden, M.Y. (1075) 102)

Polymerizable phospholipids
Liposome; Uncorking; Phospholipase A_2 (Davies, D.E. (1084) 29)

Polymerization
Hemoglobin S; Light scattering; Sickle cell (Gross, C.T. (1079) 153)

Hemoglobin; Sickle hemoglobin; Porphyrin; Modification of protein; Oxygen carrier (Adachi, K. (1079) 268)

Polymorphism
Lipid hydration; Bilayer membrane; Phase transition (Cevc, G. (1062) 59)

NMR, ^{2}H-; Freeze-fracture; Stratum corneum lipid; Barrier function; Ceramide; Hexagonal phase (Abraham, W. (1068) 189)

cyclic AMP-binding protein; Cellular slime mold (Bonfils, C. (1088) 145)

Sequence data; Repeat region; (*R. rickettsii*) (Gilmore, Jr., R.D. (1097) 77)

Pyruvate dehydrogenase complex; Biliary cirrhosis; cDNA (Moehario, L.H. (1097) 128)

Transthyretin; Basic variant; Amyloidosis; Peptide mapping; Plasma protein (Almeida, M.R. (1097) 224)

Polymorphonuclear leukocyte
Paw edema; Oxygen toxicity; Diamine oxidase; Superoxide dismutase (Ando, Y. (1073) 374)

SH group; Amino group; Luminol; Hypochlorous acid; (Human plasma) (Arnhold, J. (1097) 145)

Polymorphonuclear leukocyte adherence
Endothelial cell; Membrane fatty acid composition; Procoagulant activity; Icosanoid production; Arachidonic acid (Vossen, R.C.R.M. (1083) 243)

Polymyxin B
Protein phosphorylation; Estradiol; Corpus luteum; Compound 48/80 (Steinschneider, A. (1093) 102)

Polyol
Partial molar volume; Group additivity; Van der Waals radius; Hydrophilic channel; Single file transport (Kiyosawa, K. (1064) 251)

Polypeptide
Calcium; Manganese; Chloride; Photosystem II; Oxygen evolution; EPR multiline signal (Yocum, C.F. (1059) 1)

Harmonic force field; Conformer state; Model size (Balázs, A. (1077) 127)

Polypeptide–water interaction
Protein dynamics; Heme release (Paul, J. (1079) 330)

Polyphosphate
NMR, ^{31}P, in vivo; (*Dunaliella salina*) (Bental, M. (1092) 21)

Polyphosphoinositide kinase
Phosphoinositide; Phosphoinositidase; Transverse tubule; Sarcoplasmic reticulum; ((Frog) skeletal muscle) (Asotra, K. (1081) 229)

Polysome profile
Ornithine decarboxylase; Polyamine; Translational control (Stjernborg, L. (1090) 188)

Polyunsaturated acyl chain
Docosahexaenoyl chain; Conformational property; Equilibrium flexibility; Computer simulation; Monte Carlo method (Rabinovich, A.L. (1085) 53)

Polyunsaturated fatty acid
Lipoprotein (a); Antioxidant; Lipid peroxidation; Neuraminidase-treated lipoprotein (a) (Sattler, W. (1081) 65)

Arachidonic acid; Docosahexaenoic acid; Fish oil; (Rat pineal gland) (Sarda, N. (1081) 75)

α-Fetoprotein; Albumin; Hepatoma; (Rat fetal hepatocyte) (Iturralde, M. (1086) 81)

Tumor necrosis factor; $(n-3)$ Fatty acid; Prostaglandin; Dietary fat (Hardardottir, I. (1095) 187)

***n* − 3 Polyunsaturated fatty acid**
Synaptic vesicle; Plasma membrane; Lipid composition; Membrane fluidity; Fluorescence polarization; (Rat brain) (Zérouga, M. (1086) 295)

$(n-3)$, $(n-6)$ Polyunsaturated fatty acid
Very-long-chain fatty acid; Tetracosapentaenoic acid; Tetracosahexaenoic acid; (Coelenterated) (Vysotskii, M.V. (1083) 161)

Polyunsaturated free fatty acid
Rough endoplasmic reticulum; Membrane fusion; GTP; CTP; NADPH; Indomethacin (Lavoie, C. (1070) 274)

Pore formation
Channel gating; Peptide–lipid interaction; Melittin; Dioleoylphosphatidylcholine (Pawlak, M. (1062) 94)

Pore size
Perforin pore; Confocal laser scanning microscopy; Fluorescence microphotolysis (Sauer, H. (1063) 137)

Porin
Mitochondrion; Reconstitution; Ion selectivity; (*A. anguilla*) (De Pinto, V. (1061) 279)

Membrane protein structure; Structure prediction; (*R. capsulatus*); (*E. coli*) (Welte, W. (1080) 271)

Porphobilinogen deaminase
Chloroplast; Chlorophyll biosynthesis; (*Pisum*) (Spano, A.J. (1076) 29)

Porphyria, acute intermittent
δ-Aminolevulinic acid; Lead poisoning; Reactive oxygen species; Oxygen; Mitochondrial damage; (Rat liver mitochondria) (Hermes-Lima, M. (1056) 57)

Porphyrin
Hemoglobin; Sickle hemoglobin; Polymerization; Modification of protein; Oxygen carrier (Adachi, K. (1079) 268)

Porphyrin–liposome interaction
Hematoporphyrin; Protoporphyrin; Liposome; Membrane; Fluorescence polarization; Fluorescence quenching (Ricchelli, F. (1065) 42)

Portacaval shunt
NMR, ^{15}N-; Cerebral glutamine; Hyperammonemia; Hepatic encephalopathy; (Rat brain) (Kanamori, K. (1096) 270)

Positional specificity
Lipoxygenase; Reaction mechanism; Reticulocyte (Kühn, H. (1081) 129)

Posttranscriptional gene regulation
RNA–protein interaction; mRNA; Translation; Poly(A) (Hentze, M.W. (1090) 281)

Posttranscriptional regulation
Apolipoprotein B metabolism; Hypercholesterolemia; (Cynomolgus monkey) (Pape, M.E. (1086) 326)

Methionine synthesis; Homoserine-*O*-acetyltransferase; (*S. cerevisiae*) (Forlani, N. (1089) 47)

Posttranslational modification
γ-Carboxyglutamic acid; γ-Glutamyl carboxylase; Vitamin K (Soute, B.A.M. (1073) 434)

Amino acid sequence; Proteinase inhibitor; Protein precursor; (Bovine spleen) (Barra, D. (1076) 143)

CAAX motif; Polyisoprenylation (Newman, P. (1080) 227)

Alzheimer's disease; Tubulin-binding protein (Nieto, A. (1096) 197)

Potassium
Bisoxonol; Oxonol; Exocytosis; Mast cell; Membrane potential; Sodium pump (Bronner, C. (1070) 321)

Sweat gland; Ion channel; Cystic fibrosis; Rectification (Henderson, R.M. (1097) 219)

Potassium binding site
ATPase, Na^+/K^+-; AU-1421; Phosphoenzyme; Site-directed probe; Amine inhibition; (Sheep kidney) (Takada, J. (1065) 153)

Potassium channel
Cation channel; Reconstitution; Amiloride; Protein purification; Proteolipid; (Rabbit kidney) (Desir, G.V. (1067) 38)

Cell membrane potential; Calcium, intracellular; Inositol phosphate; Pertussis toxin; Phorbol ester (Lang, F. (1073) 600)

Potassium channel, ATP-regulated
ATP, caged; Beta-cell; ATP-regulated potassium channel (Ämmälä, C. (1092) 347)

Potassium / chloride cotransport
Hemoglobin; Oxygenation; Physiological role; (Trout red cell) (Borgese, F. (1066) 252)

Potassium chloride symport
Membrane potential; Ion exchanger; Sodium chloride symport; Chloride conductance; (*R. pipiens*, stomach) (Schwartz, M. (1062) 113)

Potassium current
Transient outward current; A-current; Calcium current; (*E. vannus*) (Krüppel, T. (1062) 193)

Potassium dependence
Sodium–calcium ion exchange; Photoreceptor (Friedel, U. (1061) 247)

Potassium diet
Aldosterone; Paracellular pathway; Transcellular pathway; (Rat jejunum) (Capurro, C. (1065) 1)

Potassium efflux
Ion transport; Potassium ion transport; Potassium ion–proton exchange; Ion exchange; (Yeast) (Peña, A. (1068) 237)

Potassium, intracellular
Microelectrode; Transmembrane potential; Intracellular potassium ion activity; Hyperosmotic stress; Transference number; Cell volume; (Mouse liver) (Wang, K. (1069) 187)

Potassium ion
ATPase, Na^+/K^+-; Substrate binding; Enzyme activation (Cornelius, F. (1067) 227)

ATPase, Na^+/K^+-; Reaction sequence; Oligomycin; Sodium ion; Conformational change; Ion transport (Pratap, P.R. (1069) 288)

Potassium ion channel
Sarcoplasmic reticulum; Bilayer; Barium ion blockage; Conductance level; Microsome; (Canine aorta) (Bezprozvanny, I.B. (1064) 75)

Smooth muscle; Subconductance (Stockbridge, L.L. (1064) 212)

Sarcoplasmic reticulum; Reconstituted lipid vesicle; Lipid bilayer method (Ide, T. (1067) 213)

Giant vesicle; Ion channel reconstitution; Sarcoplasmic reticulum; Freeze-thaw; Membrane fusion (Hirashima, N. (1067) 235)

Hypotonic shock; Chloride transport; Chloride channel; Regulatory volume decrease (RVD); (Human fibroblast) (Mastrocola, T. (1069) 201)

Stretch activation; Volume regulation (Bear, C.E. (1069) 267)

Potassium ion conductance
Membrane potential; Microelectrode technique; Amphotericin B; (*R. catesbeiana* cornea) (Carrasquer, G. (1069) 181)

Patch clamp; (Rabbit) (Merot, J. (1070) 387)

Potassium ion effect
Phosphate transport; Phosphate starvation; pH effect; (*C. utilis*) (Bourne, R.M. (1067) 81)

Potassium ion leakage
Malaria; Tryptophan-*N*-formylated gramicidin; Erythrocyte membrane; Phospholipid; Growth inhibition; (*P. falciparum*) (Moll, G.N. (1062) 206)

Potassium ion–proton exchange
Ion transport; Potassium ion transport; Potassium efflux; Ion exchange; (Yeast) (Peña, A. (1068) 237)

Potassium ion transport
HeLa cell; Isotonic; Chloride transport; Regulatory volume decrease; Calcium ion (Ikehara, T. (1068) 87)

Ion transport; Potassium efflux; Potassium ion–proton exchange; Ion exchange; (Yeast) (Peña, A. (1068) 237)

Potassium occlusion
ATPase, Na^+/K^+-; Phosphatase, K^+-; Choline; Dimethyl sulfoxide; Oligomycin; Sodium ion (Robinson, J.D. (1069) 281)

Potential change
1-Palmitoyl-2-oleoylphosphatidylcholine vesicle; Melittin; Electrostatic effect; CD; NMR, ^{31}P-; Electrophoretic mobility (Beschiaschvili, G. (1068) 195)

Potentiometry
P700; Charge recombination; Flash absorption spectroscopy; Phylloquinone; EPR (Bottin, H. (1057) 331)

Pravastatin
Hypercholesterolemia; LDL; Cholesterol synthesis; Simvastatin (Owens, D. (1082) 303)

Preadipocyte
Adipose conversion; Prostaglandin; Prostacyclin; Differentiation; (Adipose cell) (Catalioto, R.-M. (1091) 364)

Precursor
Epidermal growth factor; Aprotinin; Urine; (Rat kidney) (Jørgensen, P.E. (1074) 284)

cDNA; Phospholipase A_2; Neurotoxin; (Snake) (Bouchier, C. (1088) 401)

Vasoactive intestinal contractor (VIC); cDNA sequence; Processing; Endothelin; (Mouse) (Saida, K. (1089) 404)

Pregnancy
Phosphofructokinase; Regulation; Progesterone; Intestine, small; Lactation (Khoja, S.M. (1074) 357)

Cervix; Hyaluronate; Proteoglycan; (Ewe) (Anderson, J.C. (1075) 187)

Pregnancy zone protein
α_2-Macroglobulin; Proteolytic enzyme; Stopped flow kinetics; Fluorescence change (Christensen, U. (1076) 91)

Cloning; DNA sequence; (Human) (Devriendt, K. (1088) 95)

Pregnenolone
Steroid hormone; Lipoprotein; HDL; Androstenediol; Dehydroepiandrosterone; Dihydrotesterone; Estradiol; Progesterone (Leszczynski, D.E. (1083) 18)

Preimplantation blastocyst
Membrane transport; Amino acid transport; Anionic amino acid (acidic amino acid) (Van Winkle, L.J. (1068) 231)

Prematurity
Lecithin-cholesterol acyltransferase; Hypercholesterolemia; Hyperphospholipidemia; (Newborn infant) (Jain, S.K. (1086) 225)

Preparative HPLC
Lung surfactant; Phospholipid; Glycerophospholipid; Diether phosphonolipid; Analog; Synthesis; Surface activity; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

Presequence
Cytochrome *c* oxidase; cDNA; Nuclear gene (Smith, E.O. (1089) 266)

Pressure effect
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Fluorescence; Prodan; Fluo-3; Calcium ion indicator; (Rabbit) (Jona, I. (1070) 355)

Primary culture
Epidermal growth factor; Heparin-binding growth factor; (Rat prostate) (Nishi, N. (1095) 268)

Primary cultured hepatocyte
rRNA; Nucleolin; Glucocorticoid; EGF; Insulin (Suzuki, N. (1092) 367)

Primary donor
Photosynthesis; Photosystem II; Reaction center; Photoinhibition; β-Carotene; P680 (Telfer, A. (1060) 106)

Primary hyperoxaluria type 1
Alanine : glyoxylate aminotransferase; Serine : pyruvate aminotransferase; (Dog liver); (Dog kidney) (Danpure, C.J. (1096) 134)

Primary sequence
β-Lactoglobulin; Lipocalin; Amino acid sequence; (Cat); (Horse) (Halliday, J.A. (1077) 25)

Glutamate dehydrogenase; Enzyme evolution; Coenzyme specificity; Sequence comparison (Lilley, K.S. (1080) 191)

Primary structure
Sequence; Cytochrome *c*; Cytochrome, diheme; Diheme cytochrome (Van Beeumen, J. (1058) 56)

Albumin, 2S; Protein spectroscopy; Rapeseed (Monsalve, R.I. (1078) 265)

Hemoglobin; Antarctica; Cold-adapted teleost; Oxygen binding (Caruso, C. (1078) 273)

Priming
Insulin secretion; GLP-1 (7-36) amide; GIP; Cholecystokinin-8; Rat pancreas (Fehmann, H.-C. (1091) 356)

Neutrophil; Inositol hexakisphosphate; Superoxide generation; Phagocytosis (Eggleton, P. (1094) 309)

Priming enzyme
DNA repair enzyme; Exonuclease; Apurinic/apyrimidinic endonuclease; DNA phosphatase; Amino acid sequence (Seki, S. (1079) 57)

Principal components analysis
Fluorescence; Factor analysis; Chlorophyll-protein complex; (Pea chloroplast) (Ross, R.T. (1056) 317)

Principal σ factor gene
Nucleotide sequence; Heat shock promoter; (*Pseudomonas aeruginosa*) (Tanaka, K. (1089) 113)

Pristane
Alkane; Dioleoylphosphatidylcholine; Liposome; Plasmacytomagenesis; NMR; DSC (Gawrisch, K. (1070) 409)

Probe
Membrane topology; Nicotinic acetylcholine receptor; Acetylcholine receptor; Phosphatidylserine; Cyanogen bromide; (*T. californica*) (Blanton, M.P. (1067) 1)

Probucol
Hepatocyte primary culture; Lipid secretion; Cholesterol; Phospholipid; Triacylglycerol (De La Vega, F.M. (1081) 293)

Gene expression; Hyperlipidemia; Atherosclerosis; Apolipoprotein; LDL receptor; Hypolipidemic drug (Staels, B. (1085) 131)

Processing
Vasoactive intestinal contractor (VIC); cDNA sequence; Precursor; Endothelin; (Mouse) (Saida, K. (1089) 404)

Procoagulant activity
Endothelial cell; Membrane fatty acid composition; Polymorphonuclear leukocyte adherence; Icosanoid production; Arachidonic acid (Vossen, R.C.R.M. (1083) 243)

Procolipase
Colipase; Trypsin activation; Lipase; Bile salt; Lipase binding (Larsson, A. (1083) 283)

Procollagen
TGF-β; Collagen; Fibroblast; Collagen synthesis; Collagen degradation; Growth factor (McAnulty, R.J. (1091) 231)

Prodan
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Pressure effect; Fluorescence; Fluo-3; Calcium ion indicator; (Rabbit) (Jona, I. (1070) 355)

Product inhibition
S-Adenosylmethionine synthetase; Enzyme activation; Human lymphocyte; Phosphate; Pyrophosphate (De La Rosa, J. (1077) 225)

Proenkephalin
Kallikrein; Enkephalin processing; HPLC (Mindroiu, T. (1076) 9)

Progastrin
Tyrosine protein kinase; Phosphotyrosine; Sulfotyrosine; Tyrosine protein kinase specificity; (Rat) (Donella-Deana, A. (1095) 75)

Progelatinase metalloproteinase, 72 kDa
Metalloproteinase; Activation; Enzyme activation; TIMP-2; (Human fibroblast) (Ward, R.V. (1079) 242)

Progesterone
Phosphofructokinase; Regulation; Intestine, small; Pregnancy; Lactation (Khoja, S.M. (1074) 357)

Steroid hormone; Lipoprotein; HDL; Androstenediol; Dehydroepiandrosterone; Dihydrotesterone; Estradiol; Pregnenolone (Leszczynski, D.E. (1083) 18)

Cholesterol; Bile acid; Estrogen; Hormone (Kushwaha, R.S. (1084) 300)

Fatty acyl-CoA; Estradiol; Uterus; Glucose-6-phosphate dehydrogenase (Young, A.J. (1092) 211)

Progesterone metabolism
Steroidogenesis; Adrenal microsome; Cytochrome *P*-$450_{17\alpha,\text{lyase}}$; Cytochrome *P*-$450_{C21}$ (Higuchi, A. (1084) 240)

Progesterone receptor
Antiprogesterone; (Chicken oviduct) (Moudgil, V.K. (1094) 185)

Progestin
Thymidine kinase; Human breast cancer; Breast cancer (Moore, M.R. (1096) 170)

Programmed cell death
$\epsilon(\gamma$-Glutamyl)lysine; Metastasis; Tumor progression (Knight, C.R.L. (1096) 312)

Progress curve
Experimental design; Enzyme kinetics; Michaelis-Menten kinetics; Kinetic analysis (Duggleby, R.G. (1080) 231)

Prokallikrein
Kallikrein; Pancreas (Al-Hamidi, A.A.A. (1075) 88)

Prolactin
Amino acid sequence; Glycosylation site; Secondary structure; (Dromedary) (Martinat, N. (1077) 339)

Genomic sequence; Palindrome; (Carp) (Chen, H.-T. (1088) 315)

Protein kinase C; Protein phosphorylation; Relaxin; Endometrium; (Human) (Kalbag, S.S. (1094) 85)

Prolactin-growth hormone family
Prolactin-like protein; Bovine placenta; Molecular cloning (Tanaka, M. (1088) 385)

Prolactin-like protein
Prolactin-growth hormone family; Bovine placenta; Molecular cloning (Tanaka, M. (1088) 385)

Proliferation
Glycosyltransferase (Masibay, A.S. (1090) 230)

Creatine depletion; Ehrlich ascites tumor cell (Ohira, Y. (1097) 117)

Prolonged circulation
Liposome; Protein drug; Peptide drug; Drug delivery system; Ganglioside G_{M1}; Ricin (Maruyama, K. (1070) 246)

Prolonged liposomal half-life
Liposome; Phase partitioning; Drug delivery; Poly(ethylene glycol) (Senior, J. (1062) 77)

Prolyl hydroxylase
Collagen synthesis; One-dimensional diffusion (De Jong, L. (1079) 103)

Promoter
Calmodulin gene; Gene structure; Evolution; (Human) (Koller, M. (1087) 180)

Phosphoglucose isomerase; Nucleotide sequence (Claes, V. (1087) 339)

Insulin-like growth factor; IGF-II; Human gene; Gene structure (Holthuizen, P. (1087) 341)

Plasma protein; Gene family; Genomic sequence; (Silkworm); (*Bombyx mori*) (Mori, S. (1090) 129)

Promoter sequence
Gene expression; Transcription control; Transcription activity; (*S. aureofaciens* 2201) (Farkašovský, M. (1088) 119)

Prostatic secretory protein; Gene structure; (Monkey); (Human) (Nolet, S. (1089) 247)

Metallothionein II; Genomic structure; (Chinese hamster ovary cell) (Hung, S.-H. (1090) 255)

(Pro)phospholipase A_2
Secretion; KEX2 proteinase; Glycosylation; (Baker's yeast) (Bekkers, A.C.A.P.A. (1089) 345)

Propionate
Carboxylation; NMR, ^{13}C-; Succinate pathway; Methylmalonyl-CoA; Propionyl-CoA : oxaloacetate transcarboxylase; Anaerobic state (Houwen, F.P. (1056) 126)

ATPase, Ca^{2+}-; Membrane protein; Two-dimensional crystal (Misra, M. (1077) 107)

Carnitine; Carnitine acetyltransferase; Pyruvate; Acylcarnitine (Brass, E.P. (1095) 17)

Propionyl-CoA : oxaloacetate transcarboxylase
Propionate; Carboxylation; NMR, ^{13}C-; Succinate pathway; Methylmalonyl-CoA; Anaerobic state (Houwen, F.P. (1056) 126)

Propranolol
Neutrophil; Superoxide; Signal transduction; Phospholipase D (Gay, J.C. (1095) 236)

Prostacyclin
Glutathione; Hepatic blood flow; Thromboxane; Diethyl maleate (Bottje, W. (1073) 168)

Adipose conversion; Prostaglandin; Preadipocyte; Differentiation; (Adipose cell) (Catalioto, R.-M. (1091) 364)

Phospholipase A_2; Phospholipase C; Inositol trisphosphate (Kawaguchi, H. (1094) 161)

Prostaglandin
Anti-inflammatory; Dexamethasone; Membrane fluidity; (Rabbit cardiac muscle) (Gerritsen, M.E. (1065) 63)

Prostaglandin E_1 receptor
GTP-binding protein; Mastocytoma P-815 cell; Adenylate cyclase; Desensitization; Signal transduction (Hashimoto, H. (1095) 140)

Prostaglandin E_2
Vitamin E; Macrophage; Superoxide anion; Intracellular calcium ion (Sakamoto, W. (1074) 251)

PAF; Arachidonic acid; GPC, 1-alkyl-2-arachidonoyl; Estradiol; (Oophorectomized rat uterus) (Nakayama, R. (1085) 235)

C5a receptor; cyclic AMP-dependent protein kinase; Protein kinase C; 1,25-Dihydroxyvitamin D-3 (Rubin, J.E. (1091) 87)

Adipose conversion; Prostacyclin; Preadipocyte; Differentiation; (Adipose cell) (Catalioto, R.-M. (1091) 364)

Tumor necrosis factor α; Phosphatidylinositol; Phospholipase C; Diacylglycerol; Arachidonic acid (Rapuano, B.E. (1091) 374)

Tumor necrosis factor; $(n-3)$ Fatty acid; Polyunsaturated fatty acid; Dietary fat (Hardardottir, I. (1095) 187)

Arachidonic acid metabolism; Peroxisomal disorder; Prostaglandin metabolism; Interleukin-1; Lipid metabolism; (Human fibroblast) (Tiffany, C.W. (1096) 41)

Calcium ion; Protein kinase C; Arachidonic acid metabolism; Enterotoxin; Electrolyte transport; (Rat) (Khurana, S. (1097) 171)

Prostaglandin E_2 receptor
Renal medulla; Inhibitory guanine nucleotide-binding protein; (Dog) (Watanabe, T. (1074) 398)

Prostaglandin $F_{2\alpha}$
Parathyroid hormone; Protein kinase C; cyclic AMP; Osteoblastic cell, MC3T3E_1; (Mouse) (Wada, S. (1074) 182)

Prostaglandin metabolism
Arachidonic acid metabolism; Peroxisomal disorder; Interleukin-1; Prostaglandin E_2; Lipid metabolism; (Human fibroblast) (Tiffany, C.W. (1096) 41)

Prostaglandin regulation
α_2-Macroglobulin; Macrophage regulation; Prostaglandin synthesis (Uhing, R.J. (1093) 115)

Prostaglandin synthesis
Cholera toxin; Arachidonic acid metabolism; cyclic AMP synthesis; Protein synthesis; (Mouse Chinese hamster ovary cell) (Peterson, J.W. (1092) 79)

α_2-Macroglobulin; Macrophage regulation; Prostaglandin regulation (Uhing, R.J. (1093) 115)

Prostaglandin synthetase
Vitamin E; β-Carotene; 15-Lipoxygenase (Lomnitski, L. (1082) 101)

Prostate
Antiandrogen; Androgen receptor; Cycloheximide (Steinsapir, J. (1094) 103)

Prostate gland
Serine proteinase; Submandibular gland; Tonin (Araujo, G.W. (1074) 167)

Prostatic secretory protein
Gene structure; Promoter sequence; (Monkey); (Human) (Nolet, S. (1089) 247)

Protein
Plasma protein; Secretion rate; Microsome, rough; Saponin; Membrane association; (Rat liver) (Myrset, A.H. (1070) 229)

Protein, 14.3.3
Hydroxylase activator; Protein kinase C inhibitor protein; (Human cDNA) (Nielsen, P.J. (1088) 425)

Hyaluronan-binding protein; Macrophage (Gustafson, S. (1091) 36)

Surfactant; Phospholipid; Lung; Pulmonary inhibition (Amirkhanian, J.D. (1096) 355)

Protein A fusion
Reaction center protein; Gene cassette; Heterologous expression in *E. coli*; Affinity chromatography; (*Rhodobacter sphaeroides*) (Söhlemann, P. (1089) 103)

Protein antigenicity
Heme catabolism; Biliverdin reductase; Thiol-disulfide regulation; Oxidative stress; (Rat liver) (Frydman, J. (1076) 321)

Proteinase
Smooth muscle; Cardiac muscle; Calcium ion transport; ATP (Lyu, R.-M. (1068) 97)

Aminoacyl-tRNA synthetase; Enzyme inactivation; Proteolytic inactivation; (*S. cerevisiae*) (Larrinoa, I.F. (1073) 502)

Fibrinolytic enzyme; Snake venom; (*V. lebetina*) (Siigur, E. (1074) 223)

Calpain; Calpastatin; Muscle; Calcium ion dependent proteinase; (Bovine skeletal muscle) (Edmunds, T. (1077) 197)

Calmodulin; Mitochondrion (Wright, L.S. (1079) 174)

Enzyme purification; C5a; (*Streptococcus*, Group B); (Human) (Bohnsack, J.F. (1079) 222)

Multicatalytic proteinase; Differentiation; ATP; (Murine erythroleukemia cell) (Tsukahara, T. (1079) 273)

Calcium-activated; Autolytic activation; Proteinase inhibitor; (Erythrocyte) (Hayashi, M. (1094) 249)

Proteinase inhibitor
Vascular permeability reaction; Mite proteinase; (House dust mite) (Maruo, K. (1074) 62)

Amino acid sequence; Protein precursor; Posttranslational modification; (Bovine spleen) (Barra, D. (1076) 143)

Chromogenic substrate; Metal chelate chromatography; Affinity chromatography (Amarant, T. (1079) 214)

Calcium-activated; Proteinase; Autolytic activation; (Erythrocyte) (Hayashi, M. (1094) 249)

SKALP; Skin-derived antileukoproteinase; Elastase inhibitor; Enzyme inhibitor; Psoriasis (Schalkwijk, J. (1096) 148)

Calpain inhibitor; Invasion; Erythrocyte; (*P. falciparum*) (Olaya, P. (1096) 217)

α_1-Proteinase inhibitor
Fluorescence quenching; Red-edge excitation; Protein structure (Kołoczek, H. (1073) 619)

α-Tocopherol analog; Superoxyl radical; (Human leukocyte) (Bolkenius, F.N. (1095) 23)

Proteinase, pN-
Extracellular processing; Dermatosparaxis; C1q; Collagen-like complement protein (Yonemasu, K. (1096) 47)

Proteinase, trypsin-like
DNA synthesis; Cell cycle; (HeLa cell) (Muramatu, M. (1087) 87)

Protein-bound water
Protonic conduction; Hydrogen bonding; Lysozyme (Bone, S. (1078) 336)

Protein characterization
Eukaryotic initiation factor 2α; Protein synthesis; (Bovine eIF-2α cDNA) (Green, S.R. (1090) 277)

Protein complex
β-Mannosidase; Polyclonal antibody; (Guinea pig) (McCabe, N.R. (1077) 133)

Protein conformation
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; FTIR; ATP, caged (Barth, A. (1057) 115)

Lipid peroxidation; Peroxidative damage; Fluorometry; *N*-(1-Pyrene)maleimide; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (1067) 159)

RNA polymerase; Enzyme modification (Ozoline, O.N. (1076) 387)

Dihydrofolate reductase; NADPH binding; Spectrofluorimetry; (Bovine liver) (Rimet, O. (1076) 435)

Protein, copper
Copper protein; Enzyme purification; Uricase; (*Chlamydomonas*) (Alamillo, J.M. (1076) 203)

Protein crystallization
Lectin; (Mushroom) (Nagata, Y. (1076) 187)

Protein degradation
Ubiquitin; Macropain; ATP; Proteosome; Multicatalytic proteinase (DeMartino, G.N. (1073) 299)

Protein denaturation
Ovomucoid; Egg-white trypsin inhibitor; Structural domain; Conformation; Equilibrium studies; Kinetic studies (Das, B.K. (1076) 343)

Aspartic proteinase; Kinetics; (*E. parasitica*); (*M. miehei*) (Brown, E.D. (1076) 406)

Dimethyl sulfoxide; Infrared spectroscopy; Conformation (Jackson, M. (1078) 231)

Protein drug
Liposome; Prolonged circulation; Peptide drug; Drug delivery system; Ganglioside G_{M1}; Ricin (Maruyama, K. (1070) 246)

Protein dynamics
Molecular dynamics; Cytochrome *c* (Weber, P.C. (1058) 83)

Electron transfer; Lysozyme; Intramolecular reaction; (Hen egg-white) (Weinstein, M. (1076) 173)

Fluorescence; Tryptophan; Succinimide; 3-Phosphoglycerate kinase (Varley, P.G. (1077) 19)

Polypeptide–water interaction; Heme release (Paul, J. (1079) 330)

Protein evolution
Transferrin; cDNA sequence; Anion binding (Banfield, D.K. (1089) 262)

Protein expression
G protein; Adenylate cyclase; Diabetes; (Rat membrane) (Strassheim, D. (1096) 121)

G protein; Adenylate cyclase; Diabetes; (Rat membrane) (Livingstone, C. (1096) 127)

Protein folding
Creatine kinase; Monoclonal antibody; Epitope mapping; Synthetic peptide; (Human brain) (Man, N. (1076) 245)

Denaturation; Small angle X-ray scattering; Dynamic light scattering; Cytochrome *c*; Random coil (Damaschun, G. (1078) 289)

Fluorescence; Circular dichroism; FPLC; Cysteine proteinase inhibitor; Stefin A (Žerovnik, E. (1078) 313)

Cloning; Site-directed mutagenesis; Recombinant DNA; Interface catalysis (Ernst, E.G. (1089) 331)

Protein inhibition
Surfactant; ARDS; NRDS; Lysophosphatidylcholine (Cockshutt, A.M. (1086) 63)

Protein, 20 kDa
ADP-ribosylation; Guanine nucleotide; Aging; GTP-binding protein; (Rat testis) (Yamashita, A. (1091) 46)

Protein, 23 kDa
Phospholipid binding; (Rat spermatozoa); (Brain cytosol) (Jones, R. (1080) 78)

Protein, 33 kDa
Photosynthesis; Photosystem II; Oxygen evolution; (*Synechocystis* 6803) (Mayes, S.R. (1060) 1)

Protein, 47 kDa
Immobilization; Cross-linking; Oxygen evolution, stabilization; Extrinsic 33 kDa protein; Protein stoichiometry (Enami, I. (1060) 224)

Protein kinase
Pyruvate kinase phosphorylation; Metabolic rate depression; Enzyme regulation; Anoxia (Brooks, S.P.J. (1073) 253)

Protein phosphorylation; Enzyme inactivation; Sucrose-phosphate synthase; (Spinach leaf) (Huber, S.C. (1091) 393)

Herpesvirus infection; Phosphorylation site; Protein kinase A; Protein kinase C; Synthetic peptide (Leader, D.P. (1091) 426)

Illumination; Phosphorylation; Phospho*enol*pyruvate carboxylase; (Maize leaf) (McNaughton, G.A.L. (1093) 189)

Intrasteric control; Phosphatase; Inhibitory site; Latent form (Kemp, B.E. (1094) 67)

cyclic AMP; Glycogen metabolism; Fatty acid synthesis; Cholesterol synthesis (Cohen, P. (1094) 292)

Protein kinase A
Herpesvirus infection; Phosphorylation site; Protein kinase; Protein kinase C; Synthetic peptide (Leader, D.P. (1091) 426)

Protein kinase C
Sodium ion–proton exchange; Platelet; Phosphatase; pH, intracellular; Phosphorylation (Livne, A.A. (1068) 161)

Lipid regulation; Phosphatidylserine; Activation; Kinetic model; Hill coefficient; Ligand trapping (Sandermann, Jr., H. (1069) 235)

Prostaglandin $F_{2\alpha}$; Parathyroid hormone; cyclic AMP; Osteoblastic cell, $MC3T3E_1$; (Mouse) (Wada, S. (1074) 182)

Sphingolipid; Niemann-Pick disease; Sphingolipidose; Ceramide; Cholesterol (Koval, M. (1082) 113)

Platelet; pH, intracellular; Na^+/H^+ exchange; Phosphoinositide; Diacylglycerol; Aggregation (Luzzatto, G. (1084) 78)

Endotoxin; Arachidonic acid; Thromboxane; Protein synthesis; Macrophage; (*S. enteritidis*) (Geisel, J. (1085) 15)

Gene transfer; TPA (Reston, J.T. (1088) 270)

Calcium ion/membrane binding protein, 38 kDa; Lipocortin phosphorylation; Isoenzyme; Phospholipid-dependent calcium-independent protein kinase; (Granulocytes); (Pig) (Farkas, G. (1091) 81)

C5a receptor; cyclic AMP-dependent protein kinase; 1,25-Dihydroxyvitamin D-3; Prostaglandin E_2 (Rubin, J.E. (1091) 87)

Arachidonic acid; Phorbol ester; Platelet (Banga, H.S. (1091) 115)

Islets of Langerhans; Insulin secretion; Cholinergic (Persaud, S.J. (1091) 120)

Phospholipase A_2; Arachidonic acid release; Glucocorticosteroid; (Basophilic leukemia cell) (Zor, U. (1091) 385)

Volatile anesthetic; Norepinephrine release; Fura-2; Calcium concentration, cytoplasmatic (Tas, P.W.L. (1091) 401)

Herpesvirus infection; Phosphorylation site; Protein kinase; Protein kinase A; Synthetic peptide (Leader, D.P. (1091) 426)

Epinephrine; Cytosolic calcium; Calcium, cytosolic; cyclic AMP; (Human platelet) (Zoccarato, F. (1092) 72)

Phorbol ester; B lymphocyte differentiation (Murphy, J.J. (1092) 110)

Regulation; Actin; mRNA; Phorbol ester; T cell antigen receptor; Cyclosporin A (Goodier, M.R. (1092) 124)

Mac-1; Inositol phosphate; Complement fragment C5a; (Monocyte) (Monk, P.N. (1092) 251)

PAF synthesis; Endothelium; Thrombin; Calcium; cyclic AMP (Heller, R. (1093) 55)

T cell receptor; cyclic AMP; Receptor cross-talk (Kvanta, A. (1093) 178)

Phorbol ester; Enzyme deactivation (Robles-Flores, M. (1094) 77)

Protein phosphorylation; Prolactin; Relaxin; Endometrium; (Human) (Kalbag, S.S. (1094) 85)

Insulin; Sarcolemma; Phorbol ester; Protein phosphorylation (Walaas, O. (1094) 92)

Butylated hydroxytoluene; Thrombin; Protein phosphorylation (Ruzzene, M. (1094) 121)

Plasminogen activator inhibitor (type 1); cyclic AMP; Endothelial cell (Slivka, S.R. (1094) 317)

Aggregation; Secretion; Protein phosphorylation; cyclic GMP; (Human platelet) (Doni, M.G. (1094) 323)

Arachidonic acid; Calcium ion entry; (GH_3 cell) (MacEwan, D.J. (1094) 346)

Exocytosis; ATP; GTP binding-protein G_E; Magnesium ion; (Mast cell) (Lillie, T.H.W. (1094) 355)

Vasopressin; Epidermal growth factor; Fatty acid oxidation; (Rat hepatocyte) (Conricode, K.M. (1095) 161)

Islets of Langerhans; Glyceraldehyde; Phorbol ester; Translocation; Insulin secretion (Persaud, S.J. (1095) 183)

Erythrocyte membrane; Protein phosphorylation; Chronic myelogenous leukemia (Kundu, M. (1096) 205)

Calcium ion; Arachidonic acid metabolism; Prostaglandin; Enterotoxin; Electrolyte transport; (Rat) (Khurana, S. (1097) 171)

B-chronic lymphocytic leukemia; Phorbol ester; Fructose 2,6-bisphosphate (Colomer, D. (1097) 270)

Synovial fibroblast; Plasminogen activator inhibitor (Uhl, J. (1097) 283)

Protein kinase C activity
Sulfated polysaccharide (Herbert, J.-M. (1091) 432)

Protein kinase C inhibitor protein
Protein, 14.3.3; Hydroxylase activator; (Human cDNA) (Nielsen, P.J. (1088) 425)

Protein level
Cell proliferation; DNA binding protein; Expression; mRNA level (Yaneva, M. (1090) 181)

Protein–lipid interaction
Dipalmitoylphosphatidylcholine; Liposome; Ascorbate oxidase; Freeze-fracture (Dini, L. (1062) 108)

Melittin; Stopped flow fluorometry (Sekharam, K.M. (1063) 171)

M13 coat protein; NMR, ^2H- (Sanders, J.C. (1066) 102)

α-Sarcin; Protein spectroscopy; Antitumor protein (Gasset, M. (1080) 51)

Protein methylation
S-Adenosyl-L-methionine; Brush-border membrane; (Rat kidney cortex) (Gingras, D. (1066) 261)

Protein modelling
Cytochrome *b*; Circular dichroism; Sequence analysis; Membrane protein (Degli Esposti, M. (1056) 243)

Protein modification
Mitochondrial protein; Coenzyme A modification; Acetyl-CoA acetyltransferase; (Rat liver) (Huth, W. (1077) 1)

Poly(ADP-ribose) polymerase; Gene expression; Liver regeneration; Cell proliferation; DNA replication; DNA repair (Cesarone, C.F. (1087) 241)

Protein $p21^{ras}$
Acyltransferase; Cell-free system (Gutierrez, L. (1078) 147)

Protein phosphatase
Phosphatidylcholine biosynthesis; Okadaic acid; (Rat liver) (Hatch, G.M. (1081) 25)

cDNA sequence; Amino acid sequence; Isoform; Alternative splicing; (Human) (McPartlin, A.E. (1088) 308)

Protein phosphatase 2
Protein phosphatase $2B_w$; Phosphatase; (*S. cerevisiae*) (Da Cruz e Silva, E.F. (1089) 269)

Insulin; Okadaic acid; Hepatocyte (Agius, L. (1095) 243)

Glycogen synthase; Glucose-6-phosphate (Villar-Palasi, C. (1095) 261)

Protein phosphatase 2A
Catalytic subunit; GC box; CAT assay; CRE sequence (Kitagawa, Y. (1089) 339)

Cell cycle; p34cdc2 (Sola, M.M. (1094) 211)

Protein phosphatase $2B_w$
Protein phosphatase 2; Phosphatase; (*S. cerevisiae*) (Da Cruz e Silva, E.F. (1089) 269)

Protein phosphatase, type 2A
Calcium; Okadaic acid; Secretion (Wu, Y.N. (1092) 384)

Protein phosphorylation
Hormone-sensitive lipase; Cholesterol ester hydrolase; Mammary tissue (Small, C.A. (1082) 251)

Tyrosine protein kinase; *lyn* gene product; Synthetic peptide; Cell regulation; Enzymology (Brunati, A.M. (1091) 123)

Enzyme inactivation; Sucrose-phosphate synthase; Protein kinase; (Spinach leaf) (Huber, S.C. (1091) 393)

Elongation factor 2; Initiation factor-2; Microcystin; Okadaic acid; Protein synthesis (Redpath, N.T. (1093) 36)

Estradiol; Corpus luteum; Polymyxin B; Compound 48/80 (Steinschneider, A. (1093) 102)

Protein kinase C; Prolactin; Relaxin; Endometrium; (Human) (Kalbag, S.S. (1094) 85)

Insulin; Protein kinase C; Sarcolemma; Phorbol ester (Walaas, O. (1094) 92)

Butylated hydroxytoluene; Protein kinase C; Thrombin (Ruzzene, M. (1094) 121)

Steroidogenesis; hCG; cyclic AMP; PMA; (Leydig cell) (Chaudhary, L.R. (1094) 175)

Protein kinase C; Aggregation; Secretion; cyclic GMP; (Human platelet) (Doni, M.G. (1094) 323)

Protein kinase C; Erythrocyte membrane; Chronic myelogenous leukemia (Kundu, M. (1096) 205)

Protein precipitate
Secondary structure; Raman spectroscopy; Beta sheet (Przybycien, T.M. (1076) 103)

Protein precursor
Amino acid sequence; Proteinase inhibitor; Posttranslational modification; (Bovine spleen) (Barra, D. (1076) 143)

Protein purification
ATPase, F_1-; Mitochondrion; IEF; HPLC (Gagliardi, D. (1059) 323)

Potassium channel; Cation channel; Reconstitution; Amiloride; Proteolipid; (Rabbit kidney) (Desir, G.V. (1067) 38)

Protein–RNA interaction
U5 snRNP; U5-specific protein; Splicing (Bach, M. (1088) 139)

Protein secretion
SecY; Reconstitution; OmpT; Anti-SecY antibody (Nishiyama, K.-i. (1065) 89)

Protein sequence
Cytochrome *c*; Heme protein (Kamen, M.D. (1058) 3)

Ferredoxin methanogen; Molecular modelling; Thermostability; (Archaebacteria) (Bruschi, M. (1076) 79)

Protein sequence similarity
2-Oxo acid dehydrogenase complex; Dihydrolipoamide acyltransferase; Mitochondrial ribosomal protein (Russell, G.C. (1076) 225)

Protein spectroscopy
Albumin, 2S; Primary structure; Rapeseed (Monsalve, R.I. (1078) 265)

α-Sarcin; Protein–lipid interaction; Antitumor protein (Gasset, M. (1080) 51)

Protein stability
Plasma membrane; ATPase; ATPase activating system; Protein turnover; (*S. cerevisiae*) (Benito, B. (1063) 265)

Protein stoichiometry
Immobilization; Cross-linking; Oxygen evolution, stabilization; Extrinsic 33 kDa protein; Protein, 47 kDa (Enami, I. (1060) 224)

Protein structure
Band 3 protein; Phosphorylation; Phosphopeptide; (Human erythrocyte membrane) (Yannoukakos, D. (1061) 253)

Pesticide; Hexachlorocyclohexane; Erythrocyte membrane; Raman spectroscopy; Thermal transition (Verma, S.P. (1070) 265)

α_1-Proteinase inhibitor; Fluorescence quenching; Red-edge excitation (Kołoczek, H. (1073) 619)

Cadmium-binding protein; Metallothionein; Mollusc; *N*-Acetylation; Tandem mass spectrometry (Roesijadi, G. (1074) 230)

NADP-malate dehydrogenase; Disulfide bridge; (*P. sativum* chloroplast) (Scheibe, R. (1076) 1)

aminoacyl-tRNA synthetase; Structural motif; Nucleotide binding; Evolution (Leberman, R. (1089) 287)

Protein structure analysis
Erythrocyte; Membrane protein; Band 7; cDNA sequence (Hiebl-Dirschmied, C.M. (1090) 123)

Protein synthesis
Exocrine pancreas; L-Phenylalaline; Amino acid transport; Carbachol; (Rat) (Sweiry, J.H. (1070) 135)

Vitreous humor; Rabbit lens; Protein synthesis inhibitor; Cell-free translation (Banerjee, A. (1076) 330)

Eukaryotic initiation factor; GTP binding; Affinity labelling; Sequence analysis (Bommer, U.-A. (1079) 308)

Endotoxin; Arachidonic acid; Thromboxane; Protein kinase C; Macrophage; (*S. enteritidis*) (Geisel, J. (1085) 15)

Elongation factor Tu; Genetic engineering; Site-directed mutagenesis; (*E. coli*) (Pieper, U. (1087) 147)

Cycloheximide; Pactamycin; mRNA decay; Transcription; (*Dictyostelium discoideum*) (DeSilver, D.A. (1089) 309)

Codon usage; Mistranslation; Amino acid starvation (Ulrich, A.K. (1089) 362)

tRNA; Mitochondrion; Elongation factor; Ribosome (Kumazawa, Y. (1090) 167)

Eukaryotic initiation factor 2α; Protein characterization; (Bovine eIF-2α cDNA) (Green, S.R. (1090) 277)

Cholera toxin; Arachidonic acid metabolism; cyclic AMP synthesis; Prostaglandin synthesis; (Mouse Chinese hamster ovary cell) (Peterson, J.W. (1092) 79)

Pancreatic acinar cell; Carbachol; Cholecystokinin (Perkins, P.S. (1092) 145)

Elongation factor 2; Initiation factor-2; Microcystin; Okadaic acid; Protein phosphorylation (Redpath, N.T. (1093) 36)

Protein synthesis inhibitor
Vitreous humor; Rabbit lens; Protein synthesis; Cell-free translation (Banerjee, A. (1076) 330)

Protein synthesis initiation factor
Eukaryotic initiation factor; Hypusine (Chung, S.I. (1076) 448)

Protein thiol oxidation
Oxygen radical; Lipid peroxidation; DNA strand break; Poly(ADP-ribose) polymerase (Kirkland, J.B. (1092) 319)

Protein translational diffusion
Spin label; EPR, saturation transfer; Human serum albumin (Khramtsov, V.V. (1068) 257)

Protein translocation
Alcohol dehydrogenase; Chimeric protein; Signal sequence; Signal anchor; Zein (Shatters, Jr., R.G. (1068) 179)

Membrane; Gating; Second messenger; Lipid bilayer; (Diphtheria toxin channel) (Kagan, B.L. (1069) 145)

Protein turnover
Plasma membrane; ATPase; ATPase activating system; Protein stability; (*S. cerevisiae*) (Benito, B. (1063) 265)

Protein tyrosine phosphatase
CD45; Cell surface protein; Leukocyte proliferation (Trowbridge, I.S. (1095) 46)

Proteoglycan
Collagen; Cartilage structure; Intrafibrillar water; Extrafibrillar water (Maroudas, A. (1073) 285)

Hydrophobic proteoheparan; (Sertoli cell) (Mounis, A. (1074) 424)

Pregnancy; Cervix; Hyaluronate; (Ewe) (Anderson, J.C. (1075) 187)

Type II collagen; Type X collagen; Glutathione; Chick condrocyte; Buthionine sulfoximine (Chick chondrocyte) (Habuchi, O. (1093) 153)

Glycosaminoglycan; LDL modification; Apolipoprotein B polar region; Proteolysis; Thermal stability (Camejo, G. (1096) 253)

Proteoglycan synthesis
Transforming growth factor; (Rabbit articular chondrocytes) (Redini, F. (1093) 196)

Transforming growth factor; (Human embryonic lung fibroblast) (Romarís, M. (1093) 229)

Proteolipid
Potassium channel; Cation channel; Reconstitution; Amiloride; Protein purification; (Rabbit kidney) (Desir, G.V. (1067) 38)

Proteoliposome
Concanavalin A; D-Glucose; Permeability; Thermotropic properties (Francis, S.E. (1062) 117)

Glycine transport; Plasma membrane; Cysteine residue; (Rat brain) (Alcántara, R. (1067) 64)

Carboxyacyl derivative; Cardiolipin; Liposome; Covalent coupling; Chymotrypsin; Antibody (Niedermann, G. (1070) 401)

Sarcoplasmic reticulum; Calcium ion pump; ATPase, Ca^{2+}-; Freeze-thaw sonication; Skeletal muscle; (Rabbit) (Szymańska, G. (1091) 127)

Proteolysis
Antigen–antibody interaction; β-Casein; ELISA; Monoclonal antibody; Peptide–protein interaction (Kobayashi, T. (1077) 11)

Activation; Autolysis; Calcium ion dependence; Phosphatidylcholine; Phosphatidylinositol; Phosphatidylserine (Cottin, P. (1079) 139)

Myelin basic protein; Carboxylmethylation (Sellinger, O.Z. (1080) 110)

Cell cycle control; DNA repair; Ribosome assembly; Stress response; Ubiquitin (Jentsch, S. (1089) 127)

Proteoglycan; Glycosaminoglycan; LDL modification; Apolipoprotein B polar region; Thermal stability (Camejo, G. (1096) 253)

Proteolytic enzyme
Cardiac sodium channel; Sodium ion channel; Patch clamp; Fast inactivation; Inactivation (Zilberter, Y.I. (1068) 77)

Pregnancy zone protein; α_2-Macroglobulin; Stopped flow kinetics; Fluorescence change (Christensen, U. (1076) 91)

Proteolytic inactivation
Aminoacyl-tRNA synthetase; Enzyme inactivation; Proteinase; (*S. cerevisiae*) (Larrinoa, I.F. (1073) 502)

Proteosome
Protein degradation; Ubiquitin; Macropain; ATP; Multicatalytic proteinase (DeMartino, G.N. (1073) 299)

cDNA cloning; Gene family (Tamura, T. (1089) 95)

Prothrombin mRNA
mRNA; Developmental expression; Tissue-type expression; Gestation; (Rat) (Jamison, C.S. (1088) 208)

Prothymosin α
Thymosin α_1; Nucleotide sequence; Amino acid sequence; Secondary structure (Schmidt, G. (1088) 442)

Proton
Photosynthesis; Water oxidation; Neutral red; Thylakoid stacking (Jahns, P. (1057) 313)

Cation/substrate cotransport; Adenosine; Sodium ion; (*V. parahaemolyticus*) (Okabe, Y. (1059) 332)

Proton conductance
Intrinsic uncoupling; Mitochondrion; (Yeast) (Ouhabi, R. (1060) 293)

Proton conduction
ATP synthase, F_0F_1-; F_o subunit; ATP synthase (Guerrieri, F. (1059) 348)

Proton domain
ATP synthesis; CF_0-F_1 activation; P515; Electrochromism; Chloroplast (Ooms, J.J.J. (1056) 293)

Proton gradient
Energy coupling, localized, delocalized; Uncoupler; Membrane domain; (Thylakoid) (Allnutt, F.C.T. (1059) 28)

Peptide transport; Substrate specificity; Electrogenicity; Iodolabeled peptide; Brush-border vesicle; (Rat kidney) (Tiruppathi, C. (1069) 14)

Proton gradient, localized, delocalized
Energy coupling; (Thylakoid) (Renganathan, M. (1059) 16)

Protonic conduction
Hydrogen bonding; Lysozyme; Protein-bound water (Bone, S. (1078) 336)

Protonmotive force
Cation cycle; Sodium ion transport; Bacterial energetics; (*E. coli*) (Dibrov, P.A. (1056) 209)

Proton movement
Cytochrome *c*; Electron transfer; Energy transduction (Williams, R.J.P. (1058) 71)

Protonophore
Bilayer lipid membrane; pH microelectrode; pH change; Membrane potential (Antonenko, Y.N. (1070) 279)

Proton permeability
Mitochondrion; Cation permeability; Fatty acid; Respiratory control (Brown, G.C. (1059) 55)

Proton pumping
Submitochondrial particle; Pyrophosphatase, H^+-; (*P. sativum*) (Vianello, A. (1060) 299)

Proton pump inhibitor
ATPase, H^+/K^+-; ATPase, H^+-; Omeprazole; Bafilomycin (Mattsson, J.P. (1065) 261)

Proton / taurine cotransport
Taurine transport; Sodium ion dependent uptake; Chloride effect; (Pars convoluta); (Pars recta); (Rabbit kidney) (Jessen, H. (1064) 189)

Proton transfer
ATP synthesis; ATP synthase, F_1F_0-; ADP/ATP translocator; Mitochondrion; Lateral diffusion coefficient; Oxidative phosphorylation (Gupte, S.S. (1069) 131)

Proton translocation
Oligomycin sensitivity conferring protein; ATP synthase; DCCD; Energy coupling; Oligomycin (Joshi, S. (1067) 255)

Proton transport
ATPase; Vacuolar ATPase; Pyrophosphatase; Immunoreactivity; Cold inactivation; (*A. acetabulum*) (Ikeda, M. (1070) 77)

Liposome; Membrane; Temperature jump; Ion transport (Prabhananda, B.S. (1070) 481)

Proto-oncogene
Isoproterenol; 8-BrcAMP; Salivary epithelial cell cycle (Yeh, C.-K. (1090) 173)

Protoplast fractionation
Subcellular metabolite distribution; Chloroplast; Starch catabolism; (*C. reinhardtii*) (Klöck, G. (1073) 410)

Protoporphyrin
Porphyrin–liposome interaction; Hematoporphyrin; Liposome; Membrane; Fluorescence polarization; Fluorescence quenching (Ricchelli, F. (1065) 42)

Cobalt; Induction; Heme oxygenase (Smith, T.J. (1073) 221)

Proximal tubule
Hyperpolarization; pH effect; Sodium–potassium ion exchange; Organic acid; Basolateral membrane potential; Membrane potential; (*Necturus* kidney) (Granitzer, M. (1066) 111)

Psa protein
Photosystem I; Reaction center; Core protein; P700; (cyanobacteria); Iron-sulfur center (*Synechococcus* sp. PCC 6301 (Li, N. (1059) 215)

***psaB* gene**
Photosystem I; Gene *psaB*; Directed mutagenesis; Cyanobacterium; (*A. variabilis*) (Toelge, M. (1060) 233)

***psbL* gene product**
Photosystem II; Q_A; Reconstitution; Low molecular mass protein; L protein (Nagatsuka, T. (1057) 223)

Pseudomonal alkaline proteinase
Metalloproteinase; Fibrinolysis; Plasmin; Pseudomonal infection (Shibuya, Y. (1077) 316)

Plasma prekallikrein; Kallikrein-kinin system; Bacterial proteinase; Pseudomonal infection; Pseudomonal elastase (Shibuya, Y. (1097) 23)

Pseudomonal elastase
Plasma prekallikrein; Kallikrein-kinin system; Bacterial proteinase; Pseudomonal infection; Pseudomonal alkaline proteinase (Shibuya, Y. (1097) 23)

Pseudomonal infection
Pseudomonal alkaline proteinase; Metalloproteinase; Fibrinolysis; Plasmin (Shibuya, Y. (1077) 316)

Plasma prekallikrein; Kallikrein-kinin system; Bacterial proteinase; Pseudomonal elastase; Pseudomonal alkaline proteinase (Shibuya, Y. (1097) 23)

Psoralen
Anti-DNA antibody; DNA adduct; DNA-psoralen; DNA crosslink; anti-DNA-psoralen antibody (Hasan, R. (1073) 509)

Psoriasis
SKALP; Skin-derived antileukoproteinase; Elastase inhibitor; Proteinase inhibitor; Enzyme inhibitor (Schalkwijk, J. (1096) 148)

Psychrotrophic bacterium
Lipase; DNA sequence; Antarctic bacterium (Feller, G. (1088) 323)

Pteridine
Molybdopterin; (*R. sphaeroides*) (Seo, N. (1074) 439)

Pterin molybdenum cofactor
Molybdenum enzyme; Sequence family (Wootton, J.C. (1057) 157)

Pulmonary inhibition
Surfactant; Protein; Phospholipid; Lung (Amirkhanian, J.D. (1096) 355)

Pulmonary surfactant
Two-phase region; Fluorescent probe (Nag, K. (1068) 157)

Surfactant protein; Development; Glucocorticoid; Dexamethasone (Shimizu, H. (1081) 53)

Surfactant apoprotein; Ontogeny (Ogasawara, Y. (1083) 252)

Palmitic acid; Survanta; Surfactant inhibition; Respiratory distress syndrome (Cockshutt, A.M. (1085) 248)

Surfactant protein D; Phospholipid (Kuroki, Y. (1086) 185)

Surfactant associated protein; Recombinant DNA; Gene expression; Recombinant protein; (Chinese hamster ovary cell line); (Rat) (McCormack, F.X. (1087) 190)

Pulsatile release
Microencapsulated liposome system; Lipid–alginate interaction; Bilayer permeability; Phospholipid bilayer (Cohen, S. (1063) 95)

Pump-probe spectroscopy
Antenna; Bacterial photosynthesis; Bacteriochlorophyll; Chlorosome; Ultrafast spectroscopy; (*C. aurantiacus*) (Lin, S. (1060) 13)

***pur*H and *pur*D**
DNA sequencing; T7 polymerase/promoter (Chopra, A.K. (1090) 351)

Purification
High affinity transport; Choline; Hemicholinium-3; Monoclonal antibody; Synaptic plasma membrane (Knipper, M. (1065) 107)

ATPase, F_0F_1-; ATP; Membrane enzyme; (*Z. mobilis*) (Reyes, L. (1068) 174)

C-reactive protein; Agglutination; (Eel) (Nunomura, W. (1076) 191)

Lactic acid bacterium; Aspartate; Racemase; N-terminal sequence (Okada, H. (1078) 377)

Pyruvate (monocarboxylate) carrier; Mitochondrion; Transport; Reconstitution; Yeast (Nałęcz, M.J. (1079) 87)

Phosphatidylinositol kinase; Reconstitution (Jenkins, G.H. (1080) 11)

Purine catabolism
Adenine nucleotide; Adenosine; Plant cell culture; (*C. roseus*) (Yabuki, N. (1073) 474)

Purine metabolism
Absorption; Intestinal transport; Enterocyte; (Guinea pig) (Gross, C.J. (1073) 260)

Purine nucleotide
Oligophosphoglyceroyl ATP; ATP localization; (Rat liver mitochondria) (Patel, B. (1074) 178)

Purine phosphoribosyltransferase
Initial reaction; 'Burst' synthesis; (*Artemia*) (Montero, C. (1084) 149)

Purinoceptor
Cartilage; Chondrocyte; Extracellular ATP (Caswell, A.M. (1074) 151)

Purple membrane
Bacteriorhodopsin; Action spectrum; Photoelectric effect; Charge displacement current (McIntosh, A.R. (1056) 149)

Bacteriorhodopsin; Chromophore; Conformational change (Swords, N.A. (1070) 313)

Putrescine
Ornithine decarboxylase antizyme; Hepatocyte; Ornithine decarboxylase; (Decay in *X. laevis*) (Baby, T.G. (1092) 161)

Pyranine
Amphotericin B; Ion current; Drug delivery; Liposome (Peterson, R.P. (1064) 165)

Pyrazole
Cytochrome *P*-450IIe1; Liver metabolism; (Rat hepatocyte) (Dicker, E. (1073) 316)

Pyrene cerebroside sulfate
Synaptosome; Pyrene fatty acid; Lipid peroxidation; Membrane asymmetry (Viani, P. (1064) 24)

Pyrene cholesteryl ester
Lipid transfer protein; Cholesteryl ester transfer protein; Apolipoprotein; Fluorescence; (Human plasma) (Milner, T.G. (1082) 71)

Pyrene fatty acid
Synaptosome; Pyrene cerebroside sulfate; Lipid peroxidation; Membrane asymmetry (Viani, P. (1064) 24)

Pyrene-labeled glycerophospholipid
Phospholipid transfer protein; Transfer protein; Plasmalogen; Fluorescence; Yeast (Szolderits, G. (1063) 197)

***N*-(1-Pyrene)maleimide**
Lipid peroxidation; Peroxidative damage; Protein conformation; Fluorometry; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (1067) 159)

Pyridine nucleotide fluorescence
Flavoprotein fluorescence; Redox state; (Epididymal bull spermatozoa) (Halangk, W. (1056) 273)

Pyridine nucleotide transhydrogenase
Cleavage site; (*E. coli*) (Tong, R.C.W. (1080) 19)

Pyridoxal binding peptide
Aspartate aminotransferase; Archaebacterium; Active site; (*S. solfataricus*) (Birolo, L. (1080) 198)

Pyridoxalphosphate-6-azophenyl-4′-nitro-2′-sulfonic acid
Sarcoplasmic reticulum; NMR, ^{35}Cl-; Anion binding; Vanadate; Pyridoxalphosphate-6-azophenyl-2′-sulfonic acid (Vetter, I.R. (1067) 9)

Pyridoxalphosphate-6-azophenyl-2′-sulfonic acid
Sarcoplasmic reticulum; NMR, ^{35}Cl-; Anion binding; Vanadate; Pyridoxalphosphate-6-azophenyl-4′-nitro-2′-sulfonic acid (Vetter, I.R. (1067) 9)

Pyridoxine deficiency
Urolithiasis; Intestinal brush-border membrane; Oxalate binding; (Kinetic analysis) (Koul, H.K. (1064) 184)

Pyridyl amino derivative
Sugar chain processing; α-1,2-Mannosidase; (*R. communis*) (Kimura, Y. (1075) 6)

Pyrimidine dimer
Ultraviolet radiation; Antibody binding; Enzyme immunoassay; Plasmid vector; Specific gene fragment; DNA blot; Bacterial mutant; DNA damage; Excision repair (Wani, A.A. (1090) 195)

Pyrimidine nucleoside
Differentiation; Growth regulation; Myeloid leukemia cell; Staurosporin; (HL-60 cell) (Makishima, M. (1094) 1)

Pyrophosphatase
ATPase; Vacuolar ATPase; Immunoreactivity; Cold inactivation; Proton transport; (*A. acetabulum*) (Ikeda, M. (1070) 77)

Human immunodeficiency virus; Nucleoside diphosphate diglyceride; AZT; Mitochondrion (Van Wijk, G.M.T. (1084) 307)

Pyrophosphatase, H^+-
Submitochondrial particle; Proton pumping; (*P. sativum*) (Vianello, A. (1060) 299)

Pyrophosphate
S-Adenosylmethionine synthetase; Enzyme activation; Product inhibition; Human lymphocyte; Phosphate (De La Rosa, J. (1077) 225)

Bromoperoxidase; Reactivation; Beryllium fluoride; Aluminum fluoride; (*A. nodosum*) (Tromp, M. (1079) 53)

Pyrophosphate hydrolysis
Gas-phase reaction; Ab initio calculation; Enzyme mechanism (Saint-Martin, H. (1080) 205)

Pyrrole compound
Fructation; Maillard reaction; Reductive methylation; (Amino group); (Aldol condensation) (Suárez, G. (1075) 12)

Pyruvate
Essential fatty acid; Palmitic acid; Myocardial CoA (Saddik, M. (1086) 217)

Carnitine; Carnitine acetyltransferase; Propionate; Acylcarnitine (Brass, E.P. (1095) 17)

Pyruvate dehydrogenase complex
α-Ketoacid dehydrogenase complex; α-Ketoglutarate dehydrogenase complex; Branched chain α-ketoacid dehydrogenase complex (Matuda, S. (1089) 1)

Biliary cirrhosis; Polymorphism; cDNA (Moehario, L.H. (1097) 128)

Pyruvate kinase phosphorylation
Protein kinase; Metabolic rate depression; Enzyme regulation; Anoxia (Brooks, S.P.J. (1073) 253)

Pyruvate (monocarboxylate) carrier
Mitochondrion; Transport; Purification; Reconstitution; Yeast (Nałęcz, M.J. (1079) 87)

Q

Q_A
Photosystem II; Reconstitution; Low molecular mass protein; *psbL* gene product; L protein (Nagatsuka, T. (1057) 223)

QH_2: cytochrome *c* oxidoreductase
Mitochondrion; Cytochrome bc_1 complex; Ubiquinone; Respiratory chain (Marres, C.A.M. (1057) 51)

Q-pool
Alternative oxidase; Cyanide-insensitive respiration; NADH dehydrogenase; Regulation; Respiratory chain; (Plant mitochondria) (Moore, A.L. (1059) 121)

QSAR
Papain; *N*-Benzoylglycine ester; Enzymic hydrolysis; SAR; Glycinate ester (Compadre, C.M. (1079) 43)

Quasi-equilibrium
Acetylcholinesterase; Dissociation constant; Computer simulation; Juxtaposal modulatory site (Salih, E. (1073) 183)

Quaternary structure
Carbonic anhydrase; Dithiothreitol; Sulfonamide binding; (*C. reinhardtii*) (Husic, H.D. (1078) 35)

Quenching
High energy state; Chlorophyll fluorescence; Fluorescence quenching (Ruban, A.V. (1059) 355)

Quercetin
Ascorbate; Blood cell membrane; Hematoporphyrin; Photosensitization; α-Tocopherol (Jan, C.-Y. (1086) 7)

Quil A
Iscom; Saponin; Vaccine (Kersten, G.F.A. (1062) 165)

Quinidine
P-glycoprotein; L-Leucine transport; ATP; Verapamil; Osmolarity (Horio, M. (1061) 106)

Quinone
Reaction center; Charge recombination; Conformation; Bacteriopheophytin; (*Rps. viridis*) (Gao, J.-L. (1056) 259)

Respiratory pathway, alternative; Electron transfer; (*C. parapsilosis*) (Camougrand, N.M. (1057) 124)

Succinate dehydrogenase; (*B. subtilis*) (Lemma, E. (1059) 281)

NADH : ubiquinone reductase; Electron transfer; Nitrocompound (Bironaite, D.A. (1060) 203)

Quinone-iron acceptor complex
EPR; Photosystem II; Non-heme iron; (*P. laminosum*) (Corrie, A.R. (1057) 384)

R

Rabbit lens
Vitreous humor; Protein synthesis; Protein synthesis inhibitor; Cell-free translation (Banerjee, A. (1076) 330)

Rabbit liver
Coenzyme Q homolog; Growth; Intracellular distribution (Matsura, T. (1083) 277)

Racemase
Lactic acid bacterium; Aspartate; Purification; N-terminal sequence (Okada, H. (1078) 377)

Aspartate; Gene cloning; Sequence; Overexpression; (*Streptococcus thermophilus*) (Yohda, M. (1089) 234)

Racial difference
Diabetes mellitus, type 2; Liver/islet glucose transporter; Restriction fragment length polymorphism (Li, S.-R. (1097) 293)

Radiation damage
Radical formation; Cisplatin; Electron paramagnetic resonance; (Chinese hamster ovary cell line) (Halpern, H.J. (1093) 121)

Radiation inactivation
Cytochrome *b*559; Manganese-stabilizing 33 kDa protein; Oxygen evolution; Photosystem II; (Spinach) (Takahashi, M. (1059) 361)

Ion channel; Gramicidin A; Lipid membrane; Vitamin E (Barth, C. (1066) 54)

Radical
Myoglobin; Hydrogen peroxide; Electron spin resonance; Phenoxyl; Peroxide; Ferryl (Davies, M.J. (1077) 86)

Radical formation
Radiation damage; Cisplatin; Electron paramagnetic resonance; (Chinese hamster ovary cell line) (Halpern, H.J. (1093) 121)

Radical pair recombination
Charge separation; Triplet formation; Intersystem crossing; (*H. chlorum*) (Kleinherenbrink, F.A.M. (1057) 346)

Radical scavenger
Hypotaurine; Taurine; Neurophil activation; Antioxidant; (Human neutrophil) (Green, T.R. (1073) 91)

Radiofrequency electric field
Gene transfection; Electroporation; Electropermeabilization; COS-M6 cell; CV-1 cell; *β-gal* gene (Zheng, Q. (1088) 104)

Gene transfection: Electroporation; Electropermeabilization (Chang, D.C. (1092) 153)

Radioimmunoassay
Human pancreatic elastase 1; Autoantibody; Affinity constant (Asada, H. (1080) 34)

Radioisotopic assay
Intrinsic factor receptor; Intrinsic factor; Cobalamin; (Pig ileum) (Guéant, J.L. (1073) 614)

1-Radyl-2-acetyl-*sn*-glycerophosphocholine
PAF; Arachidonic acid; Icosapentaenoic acid; Phorbol myristate acetate; (Vascular endothelial cell) (Garcia, M.C. (1083) 37)

Raman spectroscopy
Sirohydrochlorin; Sulfite reductase (Lai, K.K. (1060) 25)

Pesticide; Hexachlorocyclohexane; Erythrocyte membrane; Thermal transition; Protein structure (Verma, S.P. (1070) 265)

Protein precipitate; Secondary structure; Beta sheet (Przybycien, T.M. (1076) 103)

Ionization state; Chemical state; Methodology (Yue, K.T. (1078) 296)

Ribonuclease F_1; Ribonuclease T_1; 2′-GMP; Enzyme structure; Nucleotide conformation (Takeuchi, H. (1078) 307)

Random coil
Denaturation; Protein folding; Small angle X-ray scattering; Dynamic light scattering; Cytochrome *c* (Damaschun, G. (1078) 289)

Random mutagenesis
Tumor necrosis factor; Synthetic gene; Gene expression; Site-directed mutagenesis; Mutein; (Human) (Ito, R. (1096) 245)

Rapeseed
Albumin, 2S; Primary structure; Protein spectroscopy (Monsalve, R.I. (1078) 265)

Rapid filtration technique
Membrane vesicle; Cotransport model; Computer simulation (Andrietti, F. (1067) 103)

Rapid freezing
Liposome extrusion; LUVET; Liposome; Extrusion apparatus; Freeze-fracture (MacDonald, R.C. (1061) 297)

Rat
Carnitine palmitoyltransferase I; Albumin; Mitochondrion; Enzyme kinetics; Acyl-CoA binding to albumin (Richards, E.W. (1076) 23)

Rat glioma cell
Phospholipid biosynthesis; Cytochalasin; Colchicine; Calcium; EGTA; Verapamil; Digitonin-permeabilization (George, T.P. (1084) 185)

Rat ileal cytosol
Bile acid binding protein; Photoaffinity labeling; Immunoblotting; Amino acid composition; Amino acid sequence (Lin, M.C. (1078) 329)

Rat liver microsome
Δ^5-Desaturation; Incorporation; Dihomogammalinolenic acid (20:3($n-6$)); Arachidonic acid (20:4($n-6$)) (Blond, J.P. (1084) 255)

Rat pancreas
Insulin secretion; Priming; GLP-1 (7-36) amide; GIP; Cholecystokinin-8 (Fehmann, H.-C. (1091) 356)

Rat thyroxine binding globulin
Rat transthyretin; Aging (Savu, L. (1097) 19)

Rat transthyretin
Rat thyroxine binding globulin; Aging (Savu, L. (1097) 19)

RDS
Lung surfactant; Phospholipid; Glycerophospholipid; Diether phosphonolipid; Analog; Synthesis; Preparative HPLC; Surface activity; Respiratory distress syndrome; ARDS (Turcotte, J.G. (1084) 1)

Reaction center
Photosynthesis; Genetic modification; Resonance Raman spectrum; Electron transfer; Pigment–protein interaction (Peloquin, J.M. (1056) 85)

Photosystem I; Core protein; P700; Iron-sulfur centers F_A and F_B; Iron-sulfur reconstitution; (*Synechococcus* sp. PCC 6301, *psaC* protein) (Mehari, T. (1056) 139)

Bacteriopheophytin; Photosynthesis; (*Ectothiorhodospira* sp.) (Mar, T. (1056) 190)

Charge recombination; Conformation; Bacteriopheophytin; Quinone; (*Rps. viridis*) (Gao, J.-L. (1056) 259)

Photosynthesis; Electron transfer; Parallel sequential-superexchange mechanism; (Bacteria) (Bixon, M. (1056) 301)

Photosynthesis; CD; Picosecond CD; (*Rb. sphaeroides*) (Xie, X. (1057) 131)

Photosynthetic unit; Photosystem; Optical cross-section; Chlorophyll; Antenna; (*Chlorella*) (Greenbaum, N.L. (1057) 195)

Photosystem II; β-Carotene exciton; Spectroscopy; Charge separation (Newell, W.R. (1057) 232)

Electron transfer; Photosynthetic bacterium; (*Chl. aurantiacus*) (Becker, M. (1057) 299)

Antenna complex; Cytochrome subunit; Detergent solubilization; (*Ectothiorhodospira mobilis*, *halophila*, *shaposhnikovii*) (Leguijt, T. (1057) 353)

Electron transfer; Photosystem II; Reconstitution (Chapman, D.J. (1057) 391)

Light harvesting; Membrane energization; Photosystem II (Ehrenheim, A.M. (1059) 106)

EPR; Photosystem II; Iron-quinone; Halogenated 1,4-benzoquinone; Semiquinone; (Plant) (Hallahan, B.J. (1059) 181)

Photosystem I; Core protein; P700; Iron-sulfur center; Psa protein; (Cyanobacteria); (*Synechococcus* sp. PCC 6301) (Li, N. (1059) 215)

D1/D2/cyt *b*-559; Photosystem II; Serine; Endopeptidase (Misra, A.N. (1059) 239)

Photosystem II; Energy transfer; (*Synechocystis* 27170) (Post, A.F. (1060) 67)

Photosystem II; Bicarbonate; EPR; Iron-quinone complex (Bowden, S.J. (1060) 89)

Photosynthesis; Photosystem II; Photoinhibition; β-Carotene; Primary donor; P680 (Telfer, A. (1060) 106)

Photosynthesis; Pigment exchange; Pigment–protein interaction; Borohydride modification; Bacteriochlorophyll; Bacteriopheophytin (Struck, A. (1060) 262)

Reaction center kinetics
Photosystem II; D_1-D_2-cyt-*b*-559 reaction center; Picosecond chlorophyll fluorescence; Photosynthesis; Charge separation; Energy transfer (Roelofs, T.A. (1060) 237)

Reaction center protein
Gene cassette; Heterologous expression in *E. coli*; Protein A fusion; Affinity chromatography; (*Rhodobacter sphaeroides*) (Söhlemann, P. (1089) 103)

Reaction mechanism
Lipoxygenase; Positional specificity; Reticulocyte (Kühn, H. (1081) 129)

Reaction sequence
ATPase, Na^+/K^+-; Oligomycin; Sodium ion; Potassium ion; Conformational change; Ion transport (Pratap, P.R. (1069) 288)

Reactivation
Bromoperoxidase; Beryllium fluoride; Aluminum fluoride; Pyrophosphate; (*A. nodosum*) (Tromp, M. (1079) 53)

Reactive oxygen species
δ-Aminolevulinic acid; Porphyria, acute intermittent; Lead poisoning; Oxygen; Mitochondrial damage; (Rat liver mitochondria) (Hermes-Lima, M. (1056) 57)

C-Reactive protein
Tumor necrosis factor; Interleukin-1; Interleukin-6; Serum amyloid A; (Human); (Hepatocyte) (Yap, S.H. (1091) 405)

Reacylation
Fatty acid remodelling; Phospholipid; Deacylation; Acyltransferase (MacDonald, J.I.S. (1084) 105)

Phosphatidylinositol; Fatty acid remodelling; Phospholipase A; Deacylation (Darnell, J.C. (1084) 279)

Receptor
Inositol 1,3,4,5-tetrakisphosphate; (Rat cerebellar membrane) (Kimura, Y. (1069) 218)

Hyaluronan; Hyaluronic acid; Endothelial cell; Membrane protein; Polyclonal antibody; (Rat liver) (Forsberg, N. (1078) 12)

Leupeptin; Endocytosis (Tsuji, A. (1078) 85)

Endothelin; Aorta; Kidney; Heart; Cross-linking; (Bovine) (Bednar, D.L. (1092) 226)

HDL; Retroendocytosis; Cholesterol; IEC-6; (Rat intestinal crypt cell) (Rogler, G. (1095) 30)

Receptor binding
Inositol 1,4,5-trisphosphate; Platelet membrane; (Human) (Hwang, S.-B. (1064) 351)

Steroid hormone; Antisteroid; Glucocorticoid receptor; (Rat liver) (Zakula, Z. (1092) 188)

HIV; T lymphocyte; Lymphocyte–virus interaction; Immune recognition (Phillips, R.E. (1096) 10)

Receptor binding domain
Apolipoprotein B; LDL receptor; Hypercholesterolemia; Gene mutation; (Human fibroblast) (Dunning, A.M. (1096) 231)

Receptor cross-talk
T cell receptor; cyclic AMP; Protein kinase C (Kvanta, A. (1093) 178)

Receptor internalization
C-reactive protein; Monocyte/macrophage activation (Tebo, J.M. (1095) 210)

Receptor mechanism
Pentafluorophenylalanine; Angiotensin II; Conformation by NMR (Bovy, P.R. (1079) 23)

Recombinant CHO cell
Interferon ω1; Gene sequence; Interferon ω1, recombinant; Glycosylation; Signal peptide; (Human) (Adolf, G.R. (1089) 167)

Recombinant DNA
Thymidylate synthase; Gene expression; Enzyme purification; NMR, ^{19}F-; (Mouse); (*E. coli*) (Zhang, H. (1077) 35)

Surfactant associated protein; Pulmonary surfactant; Gene expression; Recombinant protein; (Chinese hamster ovary cell line); (Rat) (McCormack, F.X. (1087) 190)

Cloning; Site-directed mutagenesis; Protein folding; Interface catalysis (Ernst, E.G. (1089) 331)

Recombinant enzyme
Hypoxanthine-guanine phosphoribosyltransferase; Lesch-Nyhan; Gout; Gene expression; Human erythrocyte (Free, M.L. (1087) 205)

Recombinant human CNTF
Gene expression; Neural cell; Bioactivity; (*E. coli*) (McDonald, J.R. (1090) 70)

Recombinant protein
Surfactant associated protein; Pulmonary surfactant; Recombinant DNA; Gene expression; (Chinese hamster ovary cell line); (Rat) (McCormack, F.X. (1087) 190)

Reconstituted HDL
LDL; HDL subclass; Spontaneous phospholipid transfer; Non-denaturing gradient gel electrophoresis (Jonas, A. (1085) 71)

Reconstituted lipid vesicle
Potassium ion channel; Sarcoplasmic reticulum; Lipid bilayer method (Ide, T. (1067) 213)

Reconstitution
Photosystem II; Q_A; Low molecular mass protein; *psbL* gene product; L protein (Nagatsuka, T. (1057) 223)

Electron transfer; Photosystem II; Reaction center (Chapman, D.J. (1057) 391)

Liposome; Leucine transport; (Chang liver cell) (Mitsumoto, Y. (1061) 171)

Porin; Mitochondrion; Ion selectivity; (*A. anguilla*) (De Pinto, V. (1061) 279)

Sarcolemmal vesicle; Sodium–calcium ion exchange; (Dog heart); (Frog heart); (Rabbit heart) (Bersohn, M.M. (1062) 19)

Malate carrier; Transport; Vacuole; (*Hordeum vulgare*) (Martinoia, E. (1062) 271)

SecY; Protein secretion; OmpT; Anti-SecY antibody (Nishiyama, K.-i. (1065) 89)

Carnitine carrier; Kinetics; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1065) 231)

Potassium channel; Cation channel; Amiloride; Protein purification; Proteolipid; (Rabbit kidney) (Desir, G.V. (1067) 38)

Carnitine carrier; Transport; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1069) 110)

Pyruvate (monocarboxylate) carrier; Mitochondrion; Transport; Purification; Yeast (Nałęcz, M.J. (1079) 87)

Phosphatidylinositol kinase; Purification (Jenkins, G.H. (1080) 11)

Recrystallization
Sodium dithionite; Nitrogenase; Redox enzyme; (*A. vinelandii*) (McKenna, C.E. (1075) 109)

Rectification
Sweat gland; Ion channel; Potassium; Cystic fibrosis (Henderson, R.M. (1097) 219)

Red blood cell
Water diffusion; Sulfhydryl reagent; NMR; (Human) (Benga, G. (1061) 309)

Hemolysis; Ethanol (Chi, L.-M. (1062) 46)

Phosphatidylserine; Lipid asymmetry (Connor, J. (1066) 37)

Nitroxide metabolism; Doxyl stearic acid; Free radical; Hemoglobin; Hypoxia (Minetti, M. (1074) 112)

Rose bengal; Photosensitization; Singlet oxygen; Acetylcholinesterase (Allen, M.T. (1075) 42)

Red cell
Amino acid; Genetic obesity (Serra, F. (1097) 289)

Red-edge excitation
α_1-Proteinase inhibitor; Fluorescence quenching; Protein structure (Kołoczek, H. (1073) 619)

Redox
Epidermal growth factor; Gluconeogenesis; (Hepatocyte) (Soler, C. (1091) 193)

Redox activity
Bathophenanthroline disulfonate (BPS); Diferric transferrin; Ferricyanide; Ferrozine; K562 cell (Bérczi, A. (1073) 562)

Redox enzyme
Sodium dithionite; Recrystallization; Nitrogenase; (*A. vinelandii*) (McKenna, C.E. (1075) 109)

Redox potential
Electron transfer; Marcus theory; Cytochrome *c* (Cusanovich, M.A. (1058) 67)

Redox state
Pyridine nucleotide fluorescence; Flavoprotein fluorescence; (Epididymal bull spermatozoa) (Halangk, W. (1056) 273)

Redox system
Ascorbate; Plasma membrane; HL60 (Alcain, F.J. (1073) 380)

Reduction
Nitroxide spin label; Hydroxylamine; Oxidation; EPR; (Proxyl) (Sentjurc, M. (1073) 329)

Soybean leghemoglobin α; Oxidation; Copper(II); Iron(III) (Bakan, D.A. (1079) 182)

Reductive methylation
Fructation; Maillard reaction; Pyrrole compound; (Amino group); (Aldol condensation) (Suárez, G. (1075) 12)

Reflection coefficient
Erythrocyte membrane; Permeability; Water; Amide; Urea (Toon, M.R. (1063) 179)

Refolding
Glutamine synthetase; Thermophilic protein; Unfolding; Guanidine-HCl (Wedler, F.C. (1076) 161)

Regenerating liver
Thymidine kinase; (Rat) (Tsukamoto, I. (1079) 348)

Regeneration
Carbonic anhydrase; Hepatectomy; (Rat liver) (Marín, J.J.G. (1061) 9)

Regulation
Alternative oxidase; Cyanide-insensitive respiration; NADH dehydrogenase; Q-pool; Respiratory chain; (Plant mitochondria) (Moore, A.L. (1059) 121)

Phosphofructokinase; Progesterone; Intestine, small; Pregnancy; Lactation (Khoja, S.M. (1074) 357)

Phosphofructokinase; Isoenzyme; (Rat placenta) (Khoja, S.M. (1076) 61)

Creatine kinase; Mitochondrion; Gene expression; Isoenzyme; Creatine phosphate shuttle (Payne, R.M. (1089) 352)

Acyl-CoA oxidase; Peroxisome; Splicing; Peroxisome proliferation (Bell, D.R. (1090) 211)

Calcium channel; GTP-binding protein; Second messenger (Dolphin, A.C. (1091) 68)

Actin; mRNA; Phorbol ester; T cell antigen receptor; Protein kinase C; Cyclosporin A (Goodier, M.R. (1092) 124)

Regulatory domain
Signal network; Signal specifier; Phosphorylase kinase; Subunit structure (Heilmeyer, Jr., L.M.G. (1094) 168)

Regulatory peptide
Peptide–lipid interaction; Membrane potential; Tryptophan fluorescence; Mastoparan X; Mitochondrial presequence (De Kroon, A.I.P.M. (1068) 111)

Regulatory site
Acetylcholinesterase; Enzyme-substrate inhibitor complex; Noncompetitive inhibition; Inhibition by substrate (Cohen, S.G. (1076) 112)

Regulatory volume decrease
HeLa cell; Isotonic; Potassium ion transport; Chloride transport; Calcium ion (Ikehara, T. (1068) 87)

Regulatory volume decrease (RVD)
Hypotonic shock; Chloride transport; Chloride channel; Potassium ion channel; (Human fibroblast) (Mastrocola, T. (1069) 201)

Relaxin
Protein kinase C; Protein phosphorylation; Prolactin; Endometrium; (Human) (Kalbag, S.S. (1094) 85)

Remnant receptor
VLDL remnant; LDL receptor; Lipoprotein lipase; VLDL; (HepG2 cell line) (Mulder, M. (1081) 308)

Remodeling
Phosphatidylcholine; (Rat hepatocyte) (Tijburg, L.B.M. (1085) 184)

Renal acidification
Carbonic anhydrase; Urinary electrolyte; Methazolamide; (Mouse) (Brechue, W.F. (1066) 201)

Renal cell
cyclic GMP; Nitroprusside; Ion channel; Patch clamp (Marunaka, Y. (1070) 152)

Epithelial cell; TALH-SVE; NMR; Henle's loop; (Kidney) (Von Recklinghausen, I.R. (1091) 179)

Renal dipeptidase
Aminoacylase; Ectoenzyme; Glycolipid anchor; Glycosylphosphatidylinositol; (Pig kidney) (Greenhough, K.J. (1076) 364)

Renal function
Cyclooxygenase; Transcriptional regulation; Dexamethasone; Parturition; Ovulation; Inflammation; (3T3 fibroblast); (HL-60); (U937); (Endothelial cell); (MC3T3-E1 cell) (DeWitt, D.L. (1083) 121)

Renal medulla
Prostaglandin E_2 receptor; Inhibitory guanine nucleotide-binding protein; (Dog) (Watanabe, T. (1074) 398)

Renin-angiotensin-aldosterone system
Renin secretion; Calcium; Osmolality pressure (Fray, J.C.S. (1097) 243)

Renin inhibitor
Bile acid transport; Linear peptide; (Liver cell) (Bertrams, A. (1091) 337)

Renin secretion
Calcium; Osmolality pressure; Renin-angiotensin-aldosterone system (Fray, J.C.S. (1097) 243)

Repeat region
Polymorphism; Sequence data; (*R. rickettsii*) (Gilmore, Jr., R.D. (1097) 77)

Reperfusion
Ischemia; ATPase, Na^+/K^+-; ATP; Creatine phosphate; Sarcolemma; Calcium; (Dog) (Samouilidou, E.C. (1070) 343)

Replication
DNA, cruciform; (Mammalian) (Bell, D. (1089) 299)

SV40 T antigen; Phospholipid; Transcription (Hirai, H. (1090) 305)

Replication origin
Hairpin structure; Phage G4 DNA (Hirao, I. (1087) 199)

DNA replication initiation; Mammalian DNA replication; Autonomously replicating sequence; Early activated origin; Class of origin (Landry, S. (1088) 234)

Tetracycline-resistance determinant; Chromosomal location; Multiple integration; (Bacillus) (Amano, H. (1088) 251)

In vitro replication; Cell-free system; Semiconservative replication; Initiation; DNA replication (Pearson, C.E. (1090) 156)

Repressor protein
Transposable phage; D3112 left end; Nucleotide sequence; IHF; (*Pseudomonas*) (Autexier, C. (1088) 147)

Resecretion
HDL; Endocytosis; Internalization; Non-lysosomal compartment; Fluorescein; pH probe (Rahim, A.T.M.A. (1082) 195)

Residue spacing
Histone H1; C-domain; Composition; Conservation; Helicity; Sequence analysis (Maeder, D.L. (1076) 233)

Resonance Raman
Cytochrome b_6f; Photoreduction; Heme; Cytochrome f (Hobbs, J.D. (1059) 37)

Cytochrome c-554; Heme structure; (*C. aurantiacus*) (Heibel, G. (1060) 196)

EPR; Nitridochromium(V)-porphyrin; Hemoprotein (Hori, H. (1077) 392)

Resonance Raman spectrum
Photosynthesis; Reaction center; Genetic modification; Electron transfer; Pigment–protein interaction (Peloquin, J.M. (1056) 85)

Respiration
Mitochondrion; Photosynthesis; Malate-oxaloacetate shuttle; NADH dehydrogenase; NADPH-dehydrogenase; (Plant) (Krömer, S. (1057) 42)

Dynamic model; Oxidative phosphorylation; Thermodynamics (Korzeniewski, B. (1060) 210)

Respiratory burst
Arg-Gly-Asp tripeptide; Ajoene; Fibronectin; (Human neutrophil) (Sud'ina, G.F. (1091) 257)

Respiratory chain
Mitochondrion; QH_2 : cytochrome *c* oxidoreductase; Cytochrome bc_1 complex; Ubiquinone (Marres, C.A.M. (1057) 51)

Succinate-ubiquinone reductase; Enzyme inhibition; 3-Nitrosalicyl-*N*-alkylamide (Liu, C. (1057) 373)

Alternative oxidase; Cyanide-insensitive respiration; NADH dehydrogenase; Q-pool; Regulation; (Plant mitochondria) (Moore, A.L. (1059) 121)

Fatty acid β-oxidation; Beta-oxidation; Mitochondrial enzyme (Sumegi, B. (1081) 121)

Respiratory control
Mitochondrion; Proton permeability; Cation permeability; Fatty acid (Brown, G.C. (1059) 55)

Respiratory distress syndrome
Surfactant; Surface activity; Fibrinogen; Apolipoprotein C (Seeger, W. (1081) 45)

Lung surfactant; Phospholipid; Glycerophospholipid; Diether phosphonolipid; Analog; Synthesis; Preparative HPLC; Surface activity; RDS; ARDS (Turcotte, J.G. (1084) 1)

Pulmonary surfactant; Palmitic acid; Survanta; Surfactant inhibition (Cockshutt, A.M. (1085) 248)

Surfactant; Lung pressure-volume characteristics; Lung stability; Neutral lipid; Phospholipid; (Preterm rabbit) (Gorree, G.C.M. (1086) 209)

Respiratory inhibition
Phenolic uncoupler; Cytochrome bc_1 complex (Tokutake, N. (1057) 377)

Respiratory mucus
Cystic fibrosis; Mucin glycoprotein (Padhye, N.V. (1077) 332)

Respiratory pathway, alternative
Electron transfer; Quinone; (*C. parapsilosis*) (Camougrand, N.M. (1057) 124)

Restriction endonuclease
DNA–protein interaction; Synthetic DNA duplex; Flanking sequence (Kubareva, E.A. (1088) 395)

Restriction enzyme
Low water system; lambda DNA (Hanley, A.B. (1074) 40)

Restriction fragment length polymorphism
Diabetes mellitus, type 2; Liver/islet glucose transporter; Racial difference (Li, S.-R. (1097) 293)

Reticulocyte
Membrane transport; Iron transport; Active transport; Non transferrin-bound iron; Transferrin; (Rabbit) (Qian, Z.M. (1073) 456)

Lipoxygenase; Positional specificity; Reaction mechanism (Kühn, H. (1081) 129)

Reticuloendothelial system
Macrophage; Bone marrow; Liposome; Ganglioside; Poly(ethylene glycol) (Allen, T.M. (1061) 56)

Pharmacokinetics; Liposome; Mononuclear phagocyte system; Poly(ethylene glycol); Monosialoganglioside (Allen, T.M. (1068) 133)

Retinoic acid
Heme oxygenase; Thyroid hormone (Smith, T.J. (1075) 119)

Leukotriene C_4 synthetase; Peptide leukotriene; 5-Lipoxygenase; (Rat basophilic leukemia-1 cell) (Hamasaki, Y. (1082) 126)

1,25-Dihydroxyvitamin D-3 receptor; Steroid hormone; Triiodothyronine; Oncogene; (Human osteosarcoma cell) (Mahonen, A. (1088) 111)

Retinoic acid receptor
cDNA sequence; Embryogenesis; (Chick) (Nohno, T. (1089) 273)

Epidermal growth factor; Northern blotting; Serum-free defined culture; Salivary gland adenocarcinoma cell line; (Human) (Kurokawa, R. (1095) 63)

Retinoid
β-Lactoglobulin; Modification; β-Carotene; Ligand binding (Dufour, E. (1079) 316)

ICAM-1; Cancer cell (Bouillon, M. (1097) 95)

Retinol-binding protein
Fatty acid binding protein; Myelin P_2; Tissue-specific expression; Fatty acid binding site; Differentiation; Peroxisomal proliferator; (Liver, Heart, Muscle, Kidney, Adipocyte) (Veerkamp, J.H. (1081) 1)

Retinyl ester
Lipid emulsion; HDL; Transfer protein; Cholesteryl ester; Phosphatidylcholine; (Rat); (Rabbit) (Martins, I.J. (1081) 328)

Retroendocytosis
HDL; Receptor; Cholesterol; IEC-6; (Rat intestinal crypt cell) (Rogler, G. (1095) 30)

Retrotransposition
Mobile DNA element; DNA element (Tino, A. (1087) 262)

Reverse cholesterol transport
Lipid transfer protein; Hepatic cholesterol uptake; Lipoprotein; HepG2 cell (Francis, G.A. (1084) 159)

Cholesterol transport; HDL; Surface transfer; Plasma membrane (Johnson, W.J. (1085) 273)

HDL; Cholesterol transport; Apolipoprotein A-I; Apolipoprotein A-II; (Mouse macrophage) (Von Hodenberg, E. (1086) 173)

VHDL; Cholesterol; (Rabbit) (Nanjee, M.N. (1086) 241)

Reversed pump mode
ATPase, Na^+/K^+-; Current-voltage relationship; (*Xenopus* oocyte) (Efthymiadis, A. (1068) 73)

Rhabdovirus
G protein; Viral hemorrhagic scepticaemia virus; Egtved virus; (Fish) (Thiry, M. (1090) 345)

Rhesus monkey
VLDL; LDL; Apo B; Kinetics; Saturated fat (Khosla, P. (1083) 46)

Rhodopsin
Acid metarhodopsin; Photoconversion; Conformational change; Cephalopod; X-ray scattering; Chromatofocusing (Hiraki, K. (1077) 355)

Site-specific mutagenesis; Baculovirus; Expression vector; Glycosylation (Jansen, J.J.M. (1089) 68)

RIA
Leukotriene; ELISA; Monoclonal antibody; Macrophage (Reinke, M. (1081) 274)

Ribonuclease F_1
Ribonuclease T_1; 2′-GMP; Raman spectroscopy; Enzyme structure; Nucleotide conformation (Takeuchi, H. (1078) 307)

Ribonuclease H
RNA polymerase I; Autoimmune antibody (Vonwirth, H. (1087) 31)

rRNA, 5S; Synthetic oligodeoxyribonucleotide; RNA structure; (Lupin); (Wheat germ) (Barciszewska, M.Z. (1087) 68)

Ribonuclease T_1
Ribonuclease F_1; 2′-GMP; Raman spectroscopy; Enzyme structure; Nucleotide conformation (Takeuchi, H. (1078) 307)

Ribonucleotide reductase regulation
Gene amplification; Drug resistance; Hydroxyurea resistance (Hurta, R.A.R. (1087) 165)

Ribosomal protein
Yeast; Phosphorylation (Campos, F. (1087) 142)

Ribosomal protein gene
Transcription activation; ABF1; (Yeast) (Kraakman, L.S. (1090) 204)

Ribosomal protein, L5
cDNA; RNA-binding protein, 5S; (Chicken) (Kenmochi, N. (1088) 445)

Ribosome
Heavy atom; Undecagoldcluster (Boeckh, T. (1075) 50)

rRNA; RNA, 16S; Nuclease S1; (*E. coli*) (Rahman, M.A. (1087) 212)

S12 gene; rRNA, 16S; Chemical footprinting (Bonny, C. (1089) 213)

rRNA, 18S; Nucleotide sequence (Baldridge, G.D. (1089) 396)

Protein synthesis; tRNA; Mitochondrion; Elongation factor (Kumazawa, Y. (1090) 167)

Translational control; tRNA; Estrogen regulation; Aminoacylation (Whelly, S.M. (1092) 218)

Ribosome assembly
Cell cycle control; DNA repair; Proteolysis; Stress response; Ubiquitin (Jentsch, S. (1089) 127)

Ribosome binding
Encephalomyocarditis; RNA; Viral RNA; Picornavirus; Initiation factor (Scheper, G.C. (1089) 220)

Ribosome-inactivating protein
Asparin, 1 and 2; Bryodin-L; Colocin, 1 and 2; Lychnin; Mapalmin; PAP-R; RNA *N*-glycosidase (Bolognesi, A. (1087) 293)

Ribosome inactivating protein
cDNA; Momorcharin; Trichosanthin (Ho, W.K.K. (1088) 311)

Dianthin 30; Saporin 6 (Legname, G. (1090) 119)

Ribosome structure
ribosomal RNA, 5S; ribosomal RNA, 18S; RNA:RNA hybridization, intermolecular (Sarge, K.D. (1088) 57)

Ribulose-1,5-bisphosphate carboxylase
Rubisco; Intermediate; Cobaltous ion; EPR; Optical absorption (Janson, K. (1080) 40)

Ricin
Liposome; Prolonged circulation; Protein drug; Peptide drug; Drug delivery system; Ganglioside G_{M1} (Maruyama, K. (1070) 246)

Ricin B chain
Liposome; Galactosyl binding site; Transfection; (Rat hepatoma cell) (Friede, M.H. (1069) 273)

Rifamycin SV
Metal ion; Oxygen free radical; Glutathione; Cell viability; Carbohydrate metabolism; (Rat hepatocyte) (Sáez, G.T. (1092) 325)

Rippled phase
Cholesterol; Steric pressure; Hydration pressure (Simon, S.A. (1064) 69)

RNA
Encephalomyocarditis; Viral RNA; Ribosome binding; Picornavirus; Initiation factor (Scheper, G.C. (1089) 220)

RNA-binding protein, 5S
Ribosomal protein, L5; cDNA; (Chicken) (Kenmochi, N. (1088) 445)

RNA *N*-glycosidase
Asparin, 1 and 2; Bryodin-L; Colocin, 1 and 2; Lychnin; Mapalmin; PAP-R; Ribosome-inactivating protein (Bolognesi, A. (1087) 293)

RNA polymerase
Enzyme modification; Protein conformation (Ozoline, O.N. (1076) 387)

Skeletal muscle nucleus; Dexamethasone (Goodlad, G.A.J. (1097) 166)

RNA polymerase activity
Cell cycle; Nucleic acid metabolism; (Rat thymocyte) (Schöbitz, B. (1095) 95)

RNA polymerase I
Ribonuclease H; Autoimmune antibody (Vonwirth, H. (1087) 31)

RNA polymerase III
Mitochondrial RNA processing RNA; Transcription; Cloning; (Human) (Yuan, Y. (1089) 33)

RNA 3′ processing
Minor small nuclear ribonucleoprotein; Gene family; Histone gene; (*Mus musculus*) (Gruber, A. (1088) 151)

RNA–protein interaction
snRNP; Splicing (Lührmann, R. (1087) 265)

Posttranscriptional gene regulation; mRNA; Translation; Poly(A) (Hentze, M.W. (1090) 281)

RNA:RNA hybridization, intermolecular
ribosomal RNA, 5S; ribosomal RNA, 18S; Ribosome structure (Sarge, K.D. (1088) 57)

RNA, 16S
rRNA; Ribosome; Nuclease S1; (*E. coli*) (Rahman, M.A. (1087) 212)

RNA secondary structure
Fibroblast growth factor; Translation (Forough, R. (1090) 293)

RNA structure
rRNA, 5S; Synthetic oligodeoxyribonucleotide; Ribonuclease H; (Lupin); (Wheat germ) (Barciszewska, M.Z. (1087) 68)

mRNA
Growth factor; Heparin; Lipoprotein lipase; (Rat mesenchymal heart cell) (Friedman, G. (1082) 27)

Sucrase-isomaltase; cDNA; Sucrose induction; Northern blot analysis; (Rat intestine) (Broyart, J.-P. (1087) 61)

α_1-Microglobulin; Tissue-specific gene expression; Gene regulation; cDNA cloning; (Pig) (Tavakkol, A. (1088) 47)

Selective deadenylation; Lectin mRNA; Acute phase expression; (*Sarcophaga*) (Nanbu, R. (1088) 71)

Gene expression; Mitogen stimulation; Enzyme activity; Hypoxanthine phosphoribosyl transferase gene; (Human lymphocyte) (Steen, A.-M. (1088) 77)

Prothrombin mRNA; Developmental expression; Tissue-type expression; Gestation; (Rat) (Jamison, C.S. (1088) 208)

Glycosylation; Glucose transporter (Maher, F. (1089) 27)

α_1-Acid glycoprotein gene; Acute-phase response; Gene regulation; Aging (Carter, K.C. (1089) 197)

Collagen; Gene expression; recombinant DNA; (Mouse) (Metsäranta, M. (1089) 241)

Tumor necrosis factor; Lipopolysaccharide; Untranslated region; Gene transcription; (Macrophage) (Han, J. (1090) 22)

Urea channel; Permeability; (Amphibian oocyte); (Frog urinary bladder epithelial cell) (Martial, S. (1090) 86)

Posttranscriptional gene regulation; RNA–protein interaction; Poly(A); Translation (Hentze, M.W. (1090) 281)

Alkaline phosphatase; cDNA; 1,25-Dihydroxyvitamin D-3; (Rat intestine) (Strom, M. (1090) 299)

Regulation; Actin; Phorbol ester; T cell antigen receptor; Protein kinase C; Cyclosporin A (Goodier, M.R. (1092) 124)

capped mRNA
Translation initiation; Encephalomyocarditis virus; (Rabbit reticulocyte lysate) (Jackson, R.J. (1088) 345)

c-*fos* mRNA
IAP-sensitive G-protein; Adipocyte differentiation; (3T3-L1 fibroblast) (Uehara, T. (1088) 41)

mRNA abundance
Phosphatidylethanolamine methyltransferase; Phospholipid methyltransferase; Phospholipid precursor (Gaynor, P.M. (1090) 326)

mRNA cap structure
Amino acid sequence; 7-Methylguanine; Cooperative interaction; Spectroscopic study; Cap binding protein (IF-4E) (Ueda, H. (1075) 181)

mRNA decay
Cycloheximide; Pactamycin; Protein synthesis; Transcription; (*Dictyostelium discoideum*) (DeSilver, D.A. (1089) 309)

mRNA half-life
Interleukin-6; Acute-phase response (Nesbitt, J.E. (1089) 88)

Metallothionein; Cadmium; Zinc; Spermatogenic cell; (Chicken); (Mouse) (De, S.K. (1090) 223)

mRNA level
Cell proliferation; DNA binding protein; Expression; Protein level (Yaneva, M. (1090) 181)

mRNA quantity
Lipogenic enzyme; Diurnal variation; (Rat liver) (Fukuda, H. (1086) 261)

rRNA
RNA, 16S; Ribosome; Nuclease S1; (*E. coli*) (Rahman, M.A. (1087) 212)

Nucleolin; Primary cultured hepatocyte; Glucocorticoid; EGF; Insulin (Suzuki, N. (1092) 367)

rRNA, 5S
Synthetic oligodeoxyribonucleotide; RNA structure; Ribonuclease H; (Lupin); (Wheat germ) (Barciszewska, M.Z. (1087) 68)

rRNA, 16S
Ribosome; S12 gene; Chemical footprinting (Bonny, C. (1089) 213)

rRNA, 18S
Ribosome; Nucleotide sequence (Baldridge, G.D. (1089) 396)

ribosomal RNA, 18S
ribosomal RNA, 5S; RNA:RNA hybridization, intermolecular; Ribosome structure (Sarge, K.D. (1088) 57)

ribosomal RNA, 5S
ribosomal RNA, 18S; RNA:RNA hybridization, intermolecular; Ribosome structure (Sarge, K.D. (1088) 57)

ribosomal mRNA
Non-uniform translation; (Rat liver mitochondria) (Rabinovich, Y.M. (1089) 193)

tRNA
Protein synthesis; Mitochondrion; Elongation factor; Ribosome (Kumazawa, Y. (1090) 167)

Translational control; Estrogen regulation; Ribosome; Aminoacylation (Whelly, S.M. (1092) 218)

aminoacyl-tRNA synthetase
Protein structure; Structural motif; Nucleotide binding; Evolution (Leberman, R. (1089) 287)

snRNP
Splicing; RNA–protein interaction (Lührmann, R. (1087) 265)

Rose bengal
Photosensitization; Red blood cell; Singlet oxygen; Acetylcholinesterase (Allen, M.T. (1075) 42)

***Rosy* locus**
Molecular evolution; Xanthine dehydrogenase; Transcription; Genetic transformation; (*Calliphora vicina*); (*Drosophila melanogaster*); (*Dipteran*) (Tiveron, M.-C. (1088) 390)

Rotation
Growth hormone-releasing factor; Fluctuation; Fluorescence depolarization; Phospholipid (Honda, S. (1068) 81)

Rough endoplasmic reticulum
Polyunsaturated free fatty acid; Membrane fusion; GTP; CTP; NADPH; Indomethacin (Lavoie, C. (1070) 274)

RT1.B β chain
MHC class II molecule; cDNA; (Rat) (Syha-Jedelhauser, J. (1089) 414)

Rubidium ion efflux
Beta-cell membrane; Volume regulation; Cotransport; Furosemide; (Mouse) (Engström, K.G. (1091) 145)

Rubidium-86 transport
Infected erythrocyte; (*P. falciparum*); (Human erythrocyte) (Kirk, K. (1061) 305)

Rubisco
Ribulose-1,5-bisphosphate carboxylase; Intermediate; Cobaltous ion; EPR; Optical absorption (Janson, K. (1080) 40)

Rubisco activase
1-Anilinonaphthalene-8-sulfonic acid; Fluorometry; Nucleotide binding; Enzyme regulation (Wang, Z.-Y. (1079) 263)

Rubredoxin
Metal replacement; Nickel-substituted rubredoxin; Nickel coordination; Hydrogenase; (*D. vulgaris*) (Mus-Veteau, I. (1060) 159)

Ruminal fungus
Cellobiase; Kinetics (Li, X. (1080) 148)

Ryanodine binding
Anthraquinone; Dantrolene; Excitation–contraction coupling; Calcium release channel; Cardiotoxicity (Tian, Q. (1094) 27)

Ryanodine receptor
Hibernation; Cardiac sarcoplasmic reticulum; Calsequestrin (Milner, R.E. (1063) 120)

Sarcoplasmic reticulum; Calcium release channel; (Heart) (Lindsay, A.R.G. (1064) 89)

S

Saccharide
Liposome; Dipalmitoylphosphatidylcholine; Sugar binding; Sugar exclusion; DSC (Crowe, L.M. (1064) 267)

Saliva
Cystatin; β-Adrenergic agonist (isoproterenol); Submandibular gland; Diversity (Nishiura, T. (1077) 346)

Epidermal growth factor; Chemotaxis; (Human oral epithelial cell line) (Royce, L.S. (1092) 401)

Salivary epithelial cell cycle
Proto-oncogene; Isoproterenol; 8-BrcAMP (Yeh, C.-K. (1090) 173)

Salivary gland adenocarcinoma cell line
Retinoic acid receptor; Epidermal growth factor; Northern blotting; Serum-free defined culture; (Human) (Kurokawa, R. (1095) 63)

Salt effect
α-Chymotrypsin; Acyl transfer; Charged nucleophile; Electrostatic interaction; Cation binding (Schellenberger, V. (1078) 1)

α-Chymotrypsin; Acyl transfer; Charged nucleophile; Electrostatic interaction (Schellenberger, V. (1078) 8)

High potential iron-sulfur protein; EPR; Spectroscopy; Mossbauer spectroscopy; Cubane; Structure; *g*-Strain (Dunham, W.R. (1079) 253)

Salt hydrate
Organic media; Water activity; Peptide synthesis (Kuhl, P. (1078) 326)

Salt stress
Glycine betaine; Periplasmic binding protein; (*R. meliloti*) (Le Rudulier, D. (1061) 197)

Sandhoff disease
Lysosomal storage disease; β-Hexosaminidase isozyme; Tay-Sachs disease (Mahuran, D.J. (1096) 87)

Sandwich ELISA
Fatty acid binding protein; Streptavidin-biotin system; Langendorff perfusion; (Rat heart) (Vork, M.M. (1075) 199)

Saponin
Iscom; Quil A; Vaccine (Kersten, G.F.A. (1062) 165)

Plasma protein; Protein; Secretion rate; Microsome, rough; Membrane association; (Rat liver) (Myrset, A.H. (1070) 229)

Saporin 6
Dianthin 30; Ribosome inactivating protein (Legname, G. (1090) 119)

SAR
Papain; QSAR; *N*-Benzoylglycine ester; Enzymic hydrolysis; Glycinate ester (Compadre, C.M. (1079) 43)

SAR1
Vesicular transport; Endoplasmic reticulum; GTP-binding protein; *(Saccharomyces cerevisiae)* (Nishikawa, S.-i. (1093) 135)

α-Sarcin
Antitumor agent; Thermotropic behavior; Phospholipid vesicle (Gasset, M. (1068) 9)

Protein–lipid interaction; Protein spectroscopy; Antitumor protein (Gasset, M. (1080) 51)

Sarcolemma
Phosholipase D; Phosphatidic acid; 1,2-Diacylglycerol; Transphosphatidylation; Sarcoplasmic reticulum; (Rat heart) (Panagia, V. (1064) 242)

Ischemia; Reperfusion; ATPase, Na^+/K^+-; ATP; Creatine phosphate; Calcium; (Dog) (Samouilidou, E.C. (1070) 343)

Insulin; Protein kinase C; Phorbol ester; Protein phosphorylation (Walaas, O. (1094) 92)

Sarcolemmal vesicle
Reconstitution; Sodium–calcium ion exchange; (Dog heart); (Frog heart); (Rabbit heart) (Bersohn, M.M. (1062) 19)

Lactate transport; Saturation kinetics; pH dependency; Inhibitor sensitivity; Transport capacity (Juel, C. (1065) 15)

Sarcoplasmic / endoplasmic reticulum
Calcium ion pump; Gene; (Pig) (Eggermont, J.A. (1088) 448)

Sarcoplasmic reticulum
ATPase, Ca^{2+}-; Protein conformation; FTIR; ATP, caged (Barth, A. (1057) 115)

Oxytocin; Calcium ion transport (Magocsi, M. (1063) 7)

ATPase, Ca^{2+}-; Glycoprotein, 53 kDa; Cooperativity (Kutchai, H. (1064) 49)

Glycoprotein, 53 kDa; ATPase, Ca^{2+}-; Saturation transfer EPR; EPR (Mahaney, J.E. (1064) 55)

Bilayer; Potassium ion channel; Barium ion blockage; Conductance level; Microsome; (Canine aorta) (Bezprozvanny, I.B. (1064) 75)

Ryanodine receptor; Calcium release channel; (Heart) (Lindsay, A.R.G. (1064) 89)

Chemical crosslinking; Monoclonal antibody; Glycoprotein, 53 kDa; Calsequestrin; ATPase, $(Ca^{2+} + Mg^{2+})$- (Burgess, A.J. (1064) 139)

Calcium ion release; Caffeine; Halothane; Malignant hyperthermia (Carrier, L. (1064) 175)

Phosholipase D; Phosphatidic acid; 1,2-Diacylglycerol; Transphosphatidylation; Sarcolemma; (Rat heart) (Panagia, V. (1064) 242)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Phosphate transporter; Phosphonocarboxylic acid (Stefanova, H.I. (1064) 321)

Phosphate transporter; Chloride channel (Stefanova, H.I. (1064) 329)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Glycoprotein, 53 kDa; Calcium ion transport (Grimes, E.A. (1064) 335)

Thyroxine; Calcium ion accumulation (Shoshan-Barmatz, V. (1065) 82)

ATPase, Ca^{2+}-; Alkaline metal ion; NMR, ^{23}Na-; (Skeletal muscle) (Timonin, I.M. (1066) 43)

NMR, ^{35}Cl-; Anion binding; Vanadate; Pyridoxalphosphate-6-azophenyl-2′-sulfonic acid; Pyridoxalphosphate-6-azophenyl-4′-nitro-2′-sulfonic acid (Vetter, I.R. (1067) 9)

Calcium ion transport; Excitation–contraction coupling; Halothane; Hydrocarbon (Ritov, V.B. (1067) 187)

Potassium ion channel; Reconstituted lipid vesicle; Lipid bilayer method (Ide, T. (1067) 213)

Giant vesicle; Ion channel reconstitution; Potassium ion channel; Freeze-thaw; Membrane fusion (Hirashima, N. (1067) 235)

ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; ATPase, H^+/K^+-; Photocleavage; Vanadate (Molnar, E. (1068) 17)

ATPase, Ca^{2+}-; Photochemical surface labeling; Fluorescent dye (Molnar, E. (1068) 27)

FTIR; ATPase, Ca^{2+}- (Buchet, R. (1068) 201)

Calcium ion; Caged calcium; ATPase, Ca^{2+}-; FTIR (Buchet, R. (1069) 209)

Calcium pump; Heart muscle; Fluoride effect (Narayanan, N. (1070) 83)

ATPase, Ca^{2+}-; Pressure effect; Fluorescence; Prodan; Fluo-3; Calcium ion indicator; (Rabbit) (Jona, I. (1070) 355)

ATPase, Ca^{2+}-; Crystallization; Electron diffraction; (Rabbit) (Varga, S. (1070) 374)

ATPase, (Ca^{2+} + Mg^{2+})-; Epitope (Tunwell, R.E.A. (1073) 585)

Acetylcholinesterase; External localization (Cánovas-Muñoz, M.D. (1076) 259)

ATPase, Ca^{2+}-; Vanadate inhibition; Enzyme intermediate; (Frog muscle) (Vashchenko, V.I. (1079) 8)

Phosphoinositide; Polyphosphoinositide kinase; Phosphoinositidase; Transverse tubule; ((Frog) skeletal muscle) (Asotra, K. (1081) 229)

Calcium ion pump; ATPase, Ca^{2+}-; Proteoliposome; Freeze-thaw sonication; Skeletal muscle; (Rabbit) (Szymańska, G. (1091) 127)

Saturated fat
Rhesus monkey; VLDL; LDL; Apo B; Kinetics (Khosla, P. (1083) 46)

Apolipoprotein A-I; HDL; Diet; (Rabbit) (Carlson, T.L. (1083) 221)

Saturation kinetics
Lactate transport; Sarcolemmal vesicle; pH dependency; Inhibitor sensitivity; Transport capacity (Juel, C. (1065) 15)

Saturation transfer EPR
Glycoprotein, 53 kDa; ATPase, Ca^{2+}-; Sarcoplasmic reticulum; EPR (Mahaney, J.E. (1064) 55)

Scavenger receptor
HDL; Chemical modification; Lysosomal degradation (Miyazaki, A. (1082) 143)

Schiff base
Melanogenesis inhibition; Sulfhydryl compound; 1,3-Thiazolidine; Dihydro-1,4-benzothiazine (Napolitano, A. (1073) 416)

Secondary structure
Magainin; Acidic lipid membrane; Binding isotherm; Electrostatic interaction; Membrane fluidity (Matsuzaki, K. (1063) 162)

Protein precipitate; Raman spectroscopy; Beta sheet (Przybycien, T.M. (1076) 103)

Prolactin; Amino acid sequence; Glycosylation site; (Dromedary) (Martinat, N. (1077) 339)

FTIR; Insulin; Despentapeptide insulin; Desoctapeptide insulin (Wei, J. (1080) 29)

Prothymosin α; Thymosin α_1; Nucleotide sequence; Amino acid sequence (Schmidt, G. (1088) 442)

Secondary structure prediction
Glucosamine-6-phosphate deaminase; Circular dichroism spectroscopy (Altamirano, M.M. (1076) 266)

Second messenger
Membrane; Protein translocation; Gating; Lipid bilayer; (Diphtheria toxin channel) (Kagan, B.L. (1069) 145)

Calcium channel; GTP-binding protein; Regulation (Dolphin, A.C. (1091) 68)

Phospholipase D; Mitogen; Inositol lipid hydrolysis; (Swiss 3T3 fibroblasts) (Cook, S.J. (1092) 265)

cyclic ADP-ribose; Cyclic ion mobilization (Walseth, T.F. (1094) 113)

Secretion
(Pro)phospholipase A_2; KEX2 proteinase; Glycosylation; (Baker's yeast) (Bekkers, A.C.A.P.A. (1089) 345)

Calcium; Okadaic acid; Protein phosphatase, type 2A (Wu, Y.N. (1092) 384)

Protein kinase C; Aggregation; Protein phosphorylation; cyclic GMP; (Human platelet) (Doni, M.G. (1094) 323)

Hepatocyte; DNA synthesis; Conditioned medium; Growth factor (Skouteris, G.G. (1095) 169)

Secretion rate
Plasma protein; Protein; Microsome, rough; Saponin; Membrane association; (Rat liver) (Myrset, A.H. (1070) 229)

Secretion signal
Amino acid sequence; Amylase; (Mouse); (*S. cerevisiae*) (Tokunaga, M. (1080) 135)

Secretory granule
Phospholipase A_2; Granular membrane; Arachidonic acid; (Rat parotid gland) (Mizuno, M. (1084) 21)

SecY
Protein secretion; Reconstitution; OmpT; Anti-SecY antibody (Nishiyama, K.-i. (1065) 89)

Anti-SecY antibody
SecY; Protein secretion; Reconstitution; OmpT (Nishiyama, K.-i. (1065) 89)

Selectable marker
Electrofusion; Evacuolated plant protoplast; Hybrid enrichment; Hypo-osmolar medium (Pfister, E. (1062) 13)

Selective deadenylation
Lectin mRNA; mRNA; Acute phase expression; (*Sarcophaga*) (Nanbu, R. (1088) 71)

Selectivity
Antibiotic; Polyene; Permeability; Channel; Ionophore (Bonilla-Marín, M. (1061) 65)

Surfactin; Ion channel; Conductance; Lipid bilayer; (*B. subtilis*) (Sheppard, J.D. (1064) 13)

Self exchange
Glucose transport; Integrated rate; Initial rate; Unidirectional efflux; (Human erythrocyte) (Gasbjerg, P.K. (1062) 83)

Semen
5′-Nucleotidase; Phosphatidylinositol phospholipase C; Triton X-114; (Human seminal plasma) (Fini, C. (1075) 20)

Semiconservative replication
In vitro replication; Cell-free system; Replication origin; Initiation; DNA replication (Pearson, C.E. (1090) 156)

Seminal oxygenation
Fatty acid metabolism; Cytochrome *P*-450; Epoxide; (Monkey) (Oliw, E.H. (1086) 287)

Seminal plasma
γ-Glutamyltransferase; Enzyme multiplicity; Glutathione; (Human) (Abe, S. (1077) 259)

Seminal vesicle secretory protein
Gene structure; (Bovine) (Bräuer, C. (1090) 259)

Semiquinone
EPR; Photosystem II; Iron-quinone; Reaction center; Halogenated 1,4-benzoquinone; (Plant) (Hallahan, B.J. (1059) 181)

Sendai virus
Membrane fusion; Fluorescence dequenching; (HL-60 cell); (CEM cell) (Pedroso de Lima, M.C. (1070) 446)

Senescence
Energy transfer; Photosynthesis; Chlorophyll fluorescence; Photoacoustic spectroscopy (Gruszecki, W.I. (1056) 173)

Sequence
Cytochrome *c*-552; Cytochrome *c*-555; Evolution; (*B. azotoformans*) (Hreggvidsson, G.O. (1058) 52)

Primary structure; Cytochrome *c*; Cytochrome, diheme; Diheme cytochrome (Van Beeumen, J. (1058) 56)

Aspartate; Racemase; Gene cloning; Overexpression; (*Streptococcus thermophilus*) (Yohda, M. (1089) 234)

NADH : ubiquinone reductase; Mitochondrion; cDNA; (*Neurospora crassa*) (Van der Pas, J.C. (1089) 389)

NADH : ubiquinone reductase; Complex I; Mitochondrion; Electron transfer; (*Neurospora crassa*) (Weidner, U. (1089) 391)

Sequence analysis
Cytochrome *b*; Circular dichroism; Protein modelling; Membrane protein (Degli Esposti, M. (1056) 243)

ATPase, Na^+/K^+-; Isoform; Electrophoresis; Monoclonal antibody (Cortas, N. (1070) 223)

Histone H1; C-domain; Composition; Residue spacing; Conservation; Helicity (Maeder, D.L. (1076) 233)

Protein synthesis; Eukaryotic initiation factor; GTP binding; Affinity labelling (Bommer, U.-A. (1079) 308)

Sequence classification
Cytochrome *c*; Evolutionary map; Phenotype (Ambler, R.P. (1058) 42)

Sequence comparison
Glutamate dehydrogenase; Enzyme evolution; Coenzyme specificity; Primary sequence (Lilley, K.S. (1080) 191)

Sequence data
Polymorphism; Repeat region; (*R. rickettsii*) (Gilmore, Jr., R.D. (1097) 77)

Sequence family
Pterin molybdenum cofactor; Molybdenum enzyme (Wootton, J.C. (1057) 157)

Sequence homology
Fish metallothionein; cDNA; Polymerase chain reaction; 3′ Untranslated variation (Kille, P. (1089) 407)

Sequence similarity
Binding protein; Molecular cloning; Gene structure; (Silk moth) (Krieger, J. (1088) 277)

Sequence-specific resonance assignment
Des-(B26–B30)-insulin; NMR, two dimensional (Hua, Q.-X. (1078) 101)

Sequential activation
Heme synthesis; Erythroleukemia cell; δ-Aminolevulinate synthase; Heme oxygenase (Fujita, H. (1090) 311)

Serine
D1/D2/cyt *b*-559; Reaction center; Photosystem II; Endopeptidase (Misra, A.N. (1059) 239)

Serine lipid
Ether lipid; Hydroxyarchaeol; Archaebacterium; Inositol lipid; (*M. barkeri*) (Nishihara, M. (1082) 211)

Serine phosphate site
Phosphorylase *b*′; Amino-terminus; Ammonium sulfate activation (Leonidas, D.D. (1076) 305)

Serine proteinase
Prostate gland; Submandibular gland; Tonin (Araujo, G.W. (1074) 167)

Acrosin; Amino acid sequence; Catalytic triad; Phylogenetic tree (Klemm, U. (1090) 270)

Serine : pyruvate aminotransferase
Primary hyperoxaluria type 1; Alanine : glyoxylate aminotransferase; (Dog liver); (Dog kidney) (Danpure, C.J. (1096) 134)

Serology
Melanoma; Tumor-associated antigen; Autologous antibody; Immunology (Vlock, D.R. (1080) 1)

Serum
5′-Deoxy-5′-methylthioadenosine; Methionine; Melanoma cell; (Human); (Equine) (Liteplo, R.G. (1088) 365)

Cystic fibrosis protein; Immunological relationship (Barthe, C. (1096) 175)

Serum albumin
Structure determination; Glycoprotein variant; (Human); (Albumin Casebrook) (Peach, R.J. (1097) 49)

Serum amyloid A
Tumor necrosis factor; Interleukin-1; Interleukin-6; C-Reactive protein; (Human); (Hepatocyte) (Yap, S.H. (1091) 405)

Serum-free defined culture
Retinoic acid receptor; Epidermal growth factor; Northern blotting; Salivary gland adenocarcinoma cell line; (Human) (Kurokawa, R. (1095) 63)

Serum-induced glucose release
Phospholipid liposome; Serum–liposome interaction; Photon correlation spectroscopy; Liposome stability; (Rat) (Jones, M.N. (1065) 145)

Serum–liposome interaction
Phospholipid liposome; Photon correlation spectroscopy; Liposome stability; Serum-induced glucose release; (Rat) (Jones, M.N. (1065) 145)

Serum protein 40,40
Apolipoprotein A-I binding protein; Apolipoprotein A-I; Apolipoprotein J; (Human) (Ehnholm, C. (1086) 255)

Serum protein carrier
Steroid hormone transport; Liquid membrane system; Binding coefficient; Partition coefficient (Watanabe, S. (1073) 275)

Sex related difference
Arachidonate; Essential fatty acid; Phosphatidylcholine; VLDL (Graham, A. (1081) 151)

Sex steroid
Collagen; Nonenzymatic glycation (Reiser, K.M. (1097) 55)

Sexual dimorphism
Aging; Catalase; Superoxide dismutase; Glutathione reductase; Glutathione peroxidase (Rikans, L.E. (1074) 195)

SF-9 cell
Ion channel; Calcium ion; Chloride; δ-Endotoxin; Fura-2; (*B. thuringiensis*) (Schwartz, J.-L. (1065) 250)

S12 gene
Ribosome; rRNA, 16S; Chemical footprinting (Bonny, C. (1089) 213)

Shape
Erythrocyte; Membrane (Elgsaeter, A. (1071) 273)

SH group
Polymorphonuclear leukocyte; Amino group; Luminol; Hypochlorous acid; (Human plasma) (Arnhold, J. (1097) 145)

Sialic acid
Glucose transport; Isoelectric focusing; Isoelectric point; Membrane protein; Two dimensional electrophoresis; (Human erythrocyte) (Englund, A.-K. (1065) 185)

Erythrocyte aggregation; Fibrinogen; Immunoglobulin; Erythrocyte; (Human) (Izumida, Y. (1067) 221)

Sialidase
Influenza virus; Glycohydrolase; Calcium activation (Chong, A.K.J. (1077) 65)

Sialoglycoprotein
Glycophorin; Variant; cDNA sequence (Barton, P. (1090) 265)

Sickle cell
Hemoglobin S; Polymerization; Light scattering (Gross, C.T. (1079) 153)

Sickle hemoglobin
Hemoglobin; Polymerization; Porphyrin; Modification of protein; Oxygen carrier (Adachi, K. (1079) 268)

Signal anchor
Alcohol dehydrogenase; Chimeric protein; Protein translocation; Signal sequence; Zein (Shatters, Jr., R.G. (1068) 179)

Signal network
Signal specifier; Phosphorylase kinase; Subunit structure; Regulatory domain (Heilmeyer, Jr., L.M.G. (1094) 168)

Signal peptide
Interferon ω1; Gene sequence; Interferon ω1, recombinant; Glycosylation; Recombinant CHO cell; (Human) (Adolf, G.R. (1089) 167)

Glutamate dehydrogenase; Olivoponto-cerebellar atrophy; cDNA cloning; Amino acid sequence; Gene expression; (Mouse) (Tzimagiorgis, G. (1089) 250)

Signal sequence
Alcohol dehydrogenase; Chimeric protein; Protein translocation; Signal anchor; Zein (Shatters, Jr., R.G. (1068) 179)

Signal specifier
Signal network; Phosphorylase kinase; Subunit structure; Regulatory domain (Heilmeyer, Jr., L.M.G. (1094) 168)

Signal transducation
Phosphoinositide; Phospholipase C; Phosphatidylinositol (Meldrum, E. (1092) 49)

Signal transduction
Platelet; Concanavalin A receptor; GP IIb–IIIa; G protein (Torti, M. (1070) 20)

Phospholipase D; Phosphodiester bond; Phosphatidylcholine; Phosphatidic acid; [^{18}O]Oxygen labeling (Holbrook, P.G. (1084) 155)

Diacylglycerol; Colonic cancer; Chemical carcinogenesis; Malignant transformation (Wali, R.K. (1092) 119)

Sulfation; Cell retraction; Endocytosis; Sodium ion/proton antiport (Sit, K.H. (1092) 180)

Parotid; GTPase; β-Adrenoreceptor; Adenylyl cyclase; G protein; Cholera toxin (Hiramatsu, Y. (1092) 391)

G protein; Alpha subunit; Expression; Development; (Mammalian cell and tissue) (Garibay, J.L.R. (1094) 193)

Prostaglandin E_1 receptor; GTP-binding protein; Mastocytoma P-815 cell; Adenylate cyclase; Desensitization (Hashimoto, H. (1095) 140)

Propranolol; Neutrophil; Superoxide; Phospholipase D (Gay, J.C. (1095) 236)

Silicon
Model membrane; Membrane potential; Cable equation; Glycerol monooleate; Gramicidin; Micromechanics (Fromherz, P. (1062) 103)

Silver enhancement
Colloidal gold; Liposome; Light microscopy; (Mouse) (Huang, S.K. (1069) 117)

Simulated ischemia
Neonatal cardiomyocyte; Membrane-reorganization (Musters, R.J.P. (1091) 270)

Simvastatin
Hypercholesterolemia; LDL; Cholesterol synthesis; Pravastatin (Owens, D. (1082) 303)

Cholesterol metabolism; Lipoprotein secretion; (Rat hepatocyte) (Ribeiro, A. (1086) 279)

Single file transport
Polyol; Partial molar volume; Group additivity; Van der Waals radius; Hydrophilic channel (Kiyosawa, K. (1064) 251)

Single-strand break
Singlet oxygen; DNA damage; Thiol (Devasagayam, T.P.A. (1088) 409)

Single-stranded DNA binding protein
Nucleic acid; Nitroxide; Electron spin resonance; (*E. coli*) (Bobst, E.V. (1078) 199)

Translational regulation; Bacteriophage M13; Filamentous phage (Zaman, G. (1089) 183)

Singlet oxygen
Rose bengal; Photosensitization; Red blood cell; Acetylcholinesterase (Allen, M.T. (1075) 42)

Phospholipid membrane; 1,3-Diphenylisobenzofuran; Hydrogen peroxide; Hypochlorite (Wozniak, M. (1082) 94)

Single-strand break; DNA damage; Thiol (Devasagayam, T.P.A. (1088) 409)

Sinus node automaticity
Terbium-adriamycin complex (Canada, R.G. (1073) 136)

Sirohydrochlorin
Raman spectroscopy; Sulfite reductase (Lai, K.K. (1060) 25)

Site-directed mutagenesis
Bicarbonate effect; Cyanobacterium; D2 polypeptide; Photosystem II; (*Synechocystis* sp. PCC 6803) (Cao, J. (1059) 171)

pH dependence; Band 3 protein; (*Xenopus* oocyte) (Kietz, D. (1064) 81)

Sodium ion/glucose cotransporter; Glycosylation; Expression (Hediger, M.A. (1064) 360)

α-Amylase; Transglycosylation; Maltooligosaccharide; Subsite; (*Saccharomycopsis*) (Matsui, I. (1077) 416)

Lysozyme; Active site; (Human) (Muraki, M. (1079) 229)

Protein synthesis; Elongation factor Tu; Genetic engineering; (*E. coli*) (Pieper, U. (1087) 147)

Cloning; Recombinant DNA; Protein folding; Interface catalysis (Ernst, E.G. (1089) 331)

Tumor necrosis factor; Synthetic gene; Gene expression; Random mutagenesis; Mutein; (Human) (Ito, R. (1096) 245)

Site-directed mutant
Succinyl-CoA synthetase; Enzyme mechanism; (*E. coli*) (Majumdar, R. (1076) 86)

Site-directed probe
ATPase, Na^+/K^+-; AU-1421; Phosphoenzyme; Potassium binding site; Amine inhibition; (Sheep kidney) (Takada, J. (1065) 153)

Site-specific mutagenesis
Rhodopsin; Baculovirus; Expression vector; Glycosylation (Jansen, J.J.M. (1089) 68)

SKALP
Skin-derived antileukoproteinase; Elastase inhibitor; Proteinase inhibitor; Enzyme inhibitor; Psoriasis (Schalkwijk, J. (1096) 148)

Skeletal muscle
Sarcoplasmic reticulum; Calcium ion pump; ATPase, Ca^{2+}-; Proteoliposome; Freeze-thaw sonication; (Rabbit) (Szymańska, G. (1091) 127)

1,25-Dihydroxyvitamin D-3; G protein; Calcium uptake; Fluoride (De Boland, A.R. (1094) 238)

Cell differentiation; Myoblast; Myotube; Fibroblast; L-Carnitine (Martinuzzi, A. (1095) 217)

Skeletal muscle nucleus
Dexamethasone; RNA polymerase (Goodlad, G.A.J. (1097) 166)

Skeletal muscle sarcolemma
Hyperthyroidism; Lipid content; Phospholipid fatty acid composition; Fluorescence polarization; Membrane fluidity; Calcium pump; ATPase, Ca^{2+}-; (Rabbit fast-twitch muscle) (Pilarska, M. (1068) 167)

S6 kinase
Mitogen; MAP kinase; Phosphotyrosine (Sturgill, T.W. (1092) 350)

Skin-derived antileukoproteinase
SKALP; Elastase inhibitor; Proteinase inhibitor; Enzyme inhibitor; Psoriasis (Schalkwijk, J. (1096) 148)

Skin fibroblast
Peroxisome; Latency; (Human) (Wolvetang, E.J. (1095) 122)

Skin fibroblast culture
Niemann-Pick disease type C; Intracellular cholesterol transport; Lipid storage disorder; (Human) (Argoff, C.E. (1096) 319)

Slow inactivation
Thyroid hormone; Triiodothyronine; Cardiomyocyte; Sodium channel; Patch clamp (Harris, D.R. (1095) 175)

Small angle neutron scattering
Membrane structure; Lipid bilayer; Phosphatidylcholine (Gordeliy, V.I. (1061) 39)

Small angle X-ray scattering
Denaturation; Protein folding; Dynamic light scattering; Cytochrome *c*; Random coil (Damaschun, G. (1078) 289)

Small artery
Nucleoside triphosphatase; ATPase, (Ca^{2+}-Mg^{2+})-; Ectoenzyme (Plesner, L. (1067) 191)

Nucleoside triphosphatase; ATPase, (Ca^{2+}-Mg^{2+})-; Ectoenzyme (Juul, B. (1067) 201)

Small intestine
Cell volume; Crypt isolation; (Guinea-pig) (O'Brien, J.A. (1070) 501)

Small unilamellar vesicle
Fusion; Poly(ethylene glycol); Fluorescence dequenching; (*M. capricolum*) (Salman, M. (1063) 209)

Enzyme entrapment; Polymer coated vesicle (Özden, M.Y. (1075) 102)

Smoking
Thromboxane metabolism (Uedelhoven, W.M. (1081) 197)

Smooth muscle
Potassium ion channel; Subconductance (Stockbridge, L.L. (1064) 212)

Cardiac muscle; Calcium ion transport; ATP; Proteinase (Lyu, R.-M. (1068) 97)

Phosphorylase kinase; Calcium ion; Actin; (bovine stomach) (Zevgolis, V.G. (1091) 222)

Fatty acid; Glycolysis; Glycogen; NMR, ^{31}P-; Muscle contraction; (Pig) (Barron, J.T. (1093) 125)

Smooth muscle cell
ATP diphosphohydrolase; Endothelial cell; Vascular tone; Platelet aggregation; (Bovine aorta) (Côté, Y.P. (1078) 187)

Cholesterol/phosphatidylcholine liposome; Intracellular calcium; ATPase, ($Ca^{2+} + Mg^{2+}$) (Zhou, Q. (1085) 1)

SMS 201–995
Somatostatin analog; Circular dichroism; Fluorescence spectroscopy; NMR, ^2H-; Phospholipid headgroup (Beschiaschvili, G. (1061) 78)

Snake venom
Myotoxin; Multilamellar liposome; Liposome; Phospholipase A_2; (*Bothrops* species) (Díaz, C. (1070) 455)

Proteinase; Fibrinolytic enzyme; (*V. lebetina*) (Siigur, E. (1074) 223)

Hemorrhagic factor II; Enzyme purification; (*L. muta muta*) (Sánchez, E.F. (1074) 347)

Snake venom peptide
Arg-Gly-Asp-containing; Antiplatelet aggregation; Fibrinogen binding (Huang, T.-F. (1074) 136)

Snake venom protein
Amino acid sequence; Phospholipase A_2; Edema induction (Liu, C.-S. (1077) 362)

Sodium
Thiazide receptor; Chloride; Microsome; Percoll; (Rabbit kidney) (Ellison, D.H. (1069) 241)

Sodium bis(2-ethylhexyl) phosphate
Binary system; Ternary system; Vesicle; Swollen micelle; Transmission electron microscopy; DSC; Interfacial tension (Nakache, E. (1074) 413)

Sodium butyrate
DNA methylation; genomic DNA; 5-Azacytidine; Tumor cell line; (Human) (Cosgrove, D.E. (1087) 80)

Sodium–calcium exchange current
Ion distribution; Dialyzed cell; Whole-cell recording; Sodium/potassium pump current (Bielen, F.V. (1065) 269)

Sodium–calcium ion exchange
Photoreceptor; Potassium dependence (Friedel, U. (1061) 247)

Reconstitution; Sarcolemmal vesicle; (Dog heart); (Frog heart); (Rabbit heart) (Bersohn, M.M. (1062) 19)

Calcium ion regulation; Calcium ion transport; Synaptic membrane; Electric organ; (*T. ocellata*) (Tessari, M. (1066) 208)

Sodium channel
Non-selective cation channel; Amiloride; Alveolar epithelium; Ion channel (Orser, B.A. (1094) 19)

Thyroid hormone; Triiodothyronine; Cardiomyocyte; Slow inactivation; Patch clamp (Harris, D.R. (1095) 175)

Sodium chloride
Total lipid; Phosphatidylethanolamine; Phosphatidylglycerol; Hexagonal H_{II} phase; Halophilic bacterium (Sutton, G.C. (1061) 235)

Sodium chloride symport
Membrane potential; Ion exchanger; Potassium chloride symport; Chloride conductance; (*R. pipiens*, stomach) (Schwartz, M. (1062) 113)

Sodium concentration
Ouabain; ATPase activity; (Rat nephron) (El Mernissi, G. (1064) 205)

Sodium dependence
Intestine; Brush-border membrane; *myo*-Inositol transport; D-Glucose inhibition; (Rat) (Scalera, V. (1062) 187)

Glutamate transport; Cotransport; Chloride dependence; Brush-border membrane vesicle; Hepatopancreas; (*Homarus americanus*) (Balon, L.M. (1067) 123)

Sodium-D-glucose
cDNA library; Polymerase chain reaction; Cotransport; (Rabbit kidney); (Rabbit intestine) (Morrison, A.I. (1089) 121)

Sodium dithionite
Recrystallization; Nitrogenase; Redox enzyme; (*A. vinelandii*) (McKenna, C.E. (1075) 109)

Sodium, intracellular
Sodium ion channel; Cardiac muscle (Albitz, R. (1068) 254)

Sodium ion
Cation/substrate cotransport; Adenosine; Proton; (*V. parahaemolyticus*) (Okabe, Y. (1059) 332)

ATPase, Na^+/K^+-; Phosphatase, K^+-; Choline; Dimethyl sulfoxide; Oligomycin; Potassium occlusion (Robinson, J.D. (1069) 281)

ATPase, Na^+/K^+-; Reaction sequence; Oligomycin; Potassium ion; Conformational change; Ion transport (Pratap, P.R. (1069) 288)

Sodium ion / alanine cotransport
Alveolar epithelium; Hexose transport; Sodium/phosphate cotransport; Lung cell culture; (Rat) (Clerici, C. (1063) 27)

Sodium ion channel
Cardiac sodium channel; Patch clamp; Fast inactivation; Inactivation; Proteolytic enzyme (Zilberter, Y.I. (1068) 77)

Amiloride sensitivity; Divalent cation; pH effect; Membrane vesicle; (Pars rectum); (Rabbit proximal tubule) (Blokkebak-Poulsen, J. (1068) 125)

Cardiac muscle; Sodium, intracellular (Albitz, R. (1068) 254)

Sodium ion dependence
Phosphate transport; Basolateral membrane; (Pig kidney) (Azzarolo, A.M. (1064) 229)

Oocyte; Glutamate cotransport; Voltage clamp; (*Xenopus*) (Steffgen, J. (1066) 14)

Sodium ion dependent uptake
Proton/taurine cotransport; Taurine transport; Chloride effect; (Pars convoluta); (Pars recta); (Rabbit kidney) (Jessen, H. (1064) 189)

Sodium ion / D-glucose cotransport
Ethanol; Brush-border membrane vesicle; Sodium ion–proton exchange; Sodium ion transport; Glucose transport; (Rabbit kidney) (Parenti, P. (1070) 92)

Sodium ion / D-glucose cotransporter
D-Glucose cotransport; Brush-border membrane; Polyclonal antibody; Immunological recognition; (Pig kidney) (Gérardi-Laffin, C. (1063) 21)

Sodium ion efflux
Aluminum; GTP; Gpp[NH]p; 5′-Guanylyl imidodiphosphate; (Barnacle muscle) (Huang, Y.-P. (1062) 255)

Barnacle fiber; Microinjection; ATP (Bittar, E.E. (1070) 332)

Sodium ion / glucose cotransport
Energetic coupling; Kinetics; Brush-border membrane; (Pig kidney) (Centelles, J.J. (1065) 239)

Sodium ion / glucose cotransporter
Oocyte; Glucose transport; Expression; Flux; Voltage clamp; (*Xenopus laevis*) (Weber, W.-M. (1063) 73)

Insulin; Glucose transport; Streptozotocin-induced diabetes; Phlorizin binding; Brush-border membrane vesicle; (Rat small intestine) (Fujii, Y. (1063) 90)

Glycosylation; Expression; Site directed mutagenesis (Hediger, M.A. (1064) 360)

Sodium ion / proton antiport
Monensin; Liposome; Membrane potential (Nakazato, K. (1064) 103)

Sulfation; Cell retraction; Endocytosis; Signal transduction (Sit, K.H. (1092) 180)

Sodium ion / proton antiporter activity, in vivo
Calcium channel; L-type calcium channel; β_2-Adrenoceptor; (Rat skeletal muscle) (Syme, P.D. (1093) 234)

Sodium ion–proton exchange
Bicarbonate transport; Brush-border membrane vesicle; Acidosis; (Rat kidney) (Grassl, S.M. (1061) 226)

Platelet; Protein kinase C; Phosphatase; pH, intracellular; Phosphorylation (Livne, A.A. (1068) 161)

Sodium ion/D-glucose cotransport; Ethanol; Brush-border membrane vesicle; Sodium ion transport; Glucose transport; (Rabbit kidney) (Parenti, P. (1070) 92)

Sodium ion–proton exchange
Platelet; pH, intracellular; Phosphoinositide; Protein kinase C; Diacylglycerol; Aggregation (Luzzatto, G. (1084) 78)

Sodium ion transport
Cation cycle; Protonmotive force; Bacterial energetics; (*E. coli*) (Dibrov, P.A. (1056) 209)

Sodium ion/D-glucose cotransport; Ethanol; Brush-border membrane vesicle; Sodium ion–proton exchange; Glucose transport; (Rabbit kidney) (Parenti, P. (1070) 92)

Impedance analysis; Anion; Amiloride; (Toad urinary bladder) (Lewis, S.A. (1070) 99)

Sodium / phosphate cotransport
Alveolar epithelium; Hexose transport; Sodium ion/alanine cotransport; Lung cell culture; (Rat) (Clerici, C. (1063) 27)

Sodium / phosphate cotransporter
DIDS; 4,4′-Diisothiocyanatodihydrostilbene-2,2′-disulfonic acid; Covalent binding; Brush-border membrane vesicle; (Rat) (Azzarolo, A.M. (1069) 70)

Sodium–potassium ion exchange
Hyperpolarization; pH effect; Organic acid; Basolateral membrane potential; Membrane potential; Proximal tubule; (*Necturus* kidney) (Granitzer, M. (1066) 111)

Sodium / potassium pump
Neuroblastoma; Membrane potential; Glucose; (Mouse cell) (Yorek, M.A. (1061) 1)

Lithium ion; (Human lymphocyte) (Jenkins, R.J. (1092) 138)

Sodium / potassium pump current
Ion distribution; Dialyzed cell; Whole-cell recording; Sodium–calcium exchange current (Bielen, F.V. (1065) 269)

Sodium pump
ATPase, Na^+/K^+-; Diacylglycerol; Monoacylglycerol (Askari, A. (1069) 127)

Bisoxonol; Oxonol; Exocytosis; Mast cell; Membrane potential; Potassium (Bronner, C. (1070) 321)

Cation transport pathway; Voltage dependence; ATPase, Na^+/K^+- (Halperin, J.A. (1070) 497)

Solubility
Chromatin; Nucleus; Decondensation; (Rat thymocyte) (Engelhardt, M. (1087) 173)

Soluble enzyme
ATPase, H^+/K^+-; Heterodimer; Cross-link; Glycoprotein; $C_{12}E_8$; Glutaraldehyde; Wheat germ agglutinin; FITC (Hall, K. (1077) 173)

Soluble receptor
FGF receptor; cDNA sequence; Tyrosine kinase; *bek*; *flg*; *bfr*; (Human) (Seno, M. (1089) 244)

Solution hybridization
Glucose-6-phosphate dehydrogenase mRNA; Epididymal fat pad; (Rat) (Louie, P. (1087) 25)

Solution hybridization assay
LDL receptor; Apolipoprotein B; Apolipoprotein A-I; Apolipoprotein A-IV; (Mouse organ) (Srivastava, R.A.K. (1090) 95)

Solvatochromism
Neuron; Membrane potential; Dye; Styryl dye; Fluorescence; Electrochromism (Fromherz, P. (1068) 149)

Somatic cell hybridization
DNA repair; Uracil-DNA glycosylase (Muller, S.J. (1088) 197)

Somatic mutation
Direct repeat; Heteroduplex; Complementary palindrome; V-gene; Clonal selection (Rogozin, I.B. (1089) 175)

Somatomedin
Growth hormone; Bone protein synthesis (Martínez, J.A. (1093) 111)

Somatostatin analog
SMS 201–995; Circular dichroism; Fluorescence spectroscopy; NMR, ^2H-; Phospholipid headgroup (Beschiaschvili, G. (1061) 78)

Somatostatin release
Oxyntomodulin (19–37); Glucagon; Inositol phosphate; Calcium ion; (RIN T3 cell) (Tani, T. (1095) 249)

Sonicated vesicle
Calcium ion adsorption; Phosphatidylcholine vesicle; Surface property; Fluorescence quenching (Bakás, L.S. (1065) 114)

Soybean leghemoglobin a
Oxidation; Reduction; Copper(II); Iron(III) (Bakan, D.A. (1079) 182)

SPAI-1
ATPase inhibitor; ATPase, Na^+/K^+-; Endogenous peptide; Peptide; (Porcine duodenum) (Ishizuka, N. (1069) 259)

Special pair
Electrochromism; Chlorophyll a monomer; Charge transfer; P700; Stark effect (Krawczyk, S. (1056) 64)

Specific gene fragment
Ultraviolet radiation; Pyrimidine dimer; Antibody binding; Enzyme immunoassay; Plasmid vector; DNA blot; Bacterial mutant; DNA damage; Excision repair (Wani, A.A. (1090) 195)

Specificity
Substrate modulated interaction; Bienzyme complex; Dynamism; Fructose bisphosphate (Vértessy, B.G. (1078) 236)

Specific membrane conductance
Cultured renal cell line (A6); Membrane conductance; Voltage dependence; Microelectrode; Circuit analysis (Granitzer, M. (1069) 87)

Spectrin
Cytoskeleton; Liposome; Phospholipid vesicle; Erythrocyte elasticity (Subbarao, N.K. (1063) 147)

Erythrocyte; Cytoskeleton; Electrostatic force; (Human) (Kahana, E. (1066) 1)

Fatty acid; Fluorescence quenching; EPR; Erythrocyte ghost; (Human) (Streichman, S. (1066) 9)

Spectrofluorimetry
Dihydrofolate reductase; Protein conformation; NADPH binding; (Bovine liver) (Rimet, O. (1076) 435)

Spectroscopic study
Amino acid sequence; 7-Methylguanine; Cooperative interaction; mRNA cap structure; Cap binding protein (IF-4E) (Ueda, H. (1075) 181)

Spectroscopy
Photosystem II; Reaction center; β-Carotene exciton; Charge separation (Newell, W.R. (1057) 232)

High potential iron-sulfur protein; EPR; Mossbauer spectroscopy; Cubane; Structure; g-Strain; Salt effect (Dunham, W.R. (1079) 253)

Spectroscopy, ^{31}P-NMR
Absolute quantification; ATP; Phosphocreatine; Inorganic phosphate; NMR, ^{31}P-; (Rat thigh muscle) (De Bisschop, E. (1094) 147)

Sperm
Antigen; Membrane antigen; Lectin; Concanavalin A; Wheat germ agglutinin; Agglutinin; (Goat) (Sarkar, M. (1070) 198)

Spermatogenic cell
Metallothionein; mRNA half-life; Cadmium; Zinc; (Chicken); (Mouse) (De, S.K. (1090) 223)

Spermatozoon
Plasma membrane; Epididymis; Maturation; Lipid; (Goat sperm) (Rana, A.P.S. (1061) 185)

Spermidine N^1-acetyltransferase activity
Estrogen; Estrogen induction; Polyamine; Estrous cycle; (Rat uterus) (Sessa, A. (1074) 31)

Spermine
Polyamine; Brush-border membrane vesicle; Spermine transport; (Rat intestine) (Iseki, K. (1068) 105)

Citrate synthase; Enzyme activation; Citric acid cycle; Polyamine (Yoshino, M. (1073) 200)

Spermine transport
Spermine; Polyamine; Brush-border membrane vesicle; (Rat intestine) (Iseki, K. (1068) 105)

S-phase
Chlorambucil; Histone variant; Histone synthesis; Hydroxyurea; DNA synthesis; Alkylating agent (Sourlingas, T.G. (1092) 298)

Spherocytosis
Erythrocyte; Hemolysis; Iron deficiency; Thalassemia; pH effect; Band 3 protein (Sauer, A. (1063) 203)

Spheroid
Lipid metabolism; Choline; Ethanolamine; NMR, ^{31}P-; NMR, ^{13}C-; T47D (Ronen, S.M. (1095) 5)

Spherulation
DNA topoisomerase I; Enzyme purification; (*P. polycephalum*) (Staron, K. (1088) 36)

Sphingolipid
Medulloblastoma; Glycosyltransferase; Xenograft; Ganglioside (Gottfries, J. (1081) 253)

Niemann-Pick disease; Sphingolipidose; Protein kinase C; Ceramide; Cholesterol (Koval, M. (1082) 113)

Sphingolipid hydrolase
Ceramide; Glucosylceramide; Glucosylceramide glucosidase; Ceramide glucosyltransferase inhibition; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; L-Cycloserine; Sphingosine biosynthesis inhibition; Kidney (Shukla, G.S. (1083) 101)

Sphingolipidose
Sphingolipid; Niemann-Pick disease; Protein kinase C; Ceramide; Cholesterol (Koval, M. (1082) 113)

Sphingomyelin
Lipid bilayer; Thermodynamics; X-ray diffraction; DSC (Maulik, P.R. (1062) 211)

Sterol exchange; Synthetic phospholipid; Cholesterol–phosphatidylcholine interaction; Hydrogen bond; Phosphatidylcholine bilayer (Kan, C.-C. (1066) 95)

Lipid oxidation; *tert*-Butyl hydroperoxide; Lipid bilayer; Conjugated diene; NMR, ^{1}H-; Infrared; Fluorescence (Lamba, O.P. (1081) 181)

Cestode lipid; Glycosphingolipid; HPLC; FABMS (Nishimura, K. (1086) 141)

Phosphatidylcholine; Ceramide; Diacylglycerol; Octyl glucoside (Hanada, K. (1086) 151)

Sphingomyelinase
Steroidogenesis; Mitochondrion; Sphingomyelin degradation; (Leydig tumor cell); (Mouse) (Pörn, M.I. (1093) 7)

Niemann-Pick disease type C; Phenotypic heterogeneity; Intracellular cholesterol processing; I-cell disease; Lipid storage disorder; (Skin fibroblast culture) (Vanier, M.T. (1096) 328)

Sphingomyelin degradation
Steroidogenesis; Mitochondrion; Sphingomyelinase; (Leydig tumor cell); (Mouse) (Pörn, M.I. (1093) 7)

Sphingosine
Macrophage; Ceramide; Phosphatidylcholine; Phosphatidylethanolamine (Stein, Y. (1084) 87)

NMR, ^{31}P-; Phospholipid metabolism; Phorbol ester; (B lymphocyte) (Miccheli, A. (1093) 29)

Phorbol ester; HPLC; (B lymphocyte) (Miccheli, A. (1095) 90)

Sphingosine biosynthesis inhibition
Ceramide; Glucosylceramide; Glucosylceramide glucosidase; Ceramide glucosyltransferase inhibition; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; L-Cycloserine; Sphingolipid hydrolase; Kidney (Shukla, G.S. (1083) 101)

Spinach chloroplast
Cytochrome b_6f complex; Trypsin (Li, L.-B. (1057) 215)

Spin label
EPR; Lipid bilayer; Chain flexibility (Reboiras, M.D. (1063) 259)

Calmodulin; Conformation; EPR (Yacko, M.A. (1064) 7)

Oxygen diffusion; Oxygen concentration; Carotenoid; Lipid bilayer; EPR (Subczynski, W.K. (1068) 68)

Protein translational diffusion; EPR, saturation transfer; Human serum albumin (Khramtsov, V.V. (1068) 257)

ATPase, Ca^{2+}-; *n*-Alkanol; Lipid/protein interface (Lopes, C.M.B. (1070) 467)

Glutamine synthetase; Binding site; Catalytic site; (*E. coli*) (Ubom, G.A. (1077) 91)

Phospholipid transfer protein; EPR; Fluorescent phospholipid; (Maize seed) (Geldwerth, D. (1082) 255)

Spin lattice relaxation time
NMR, ^{1}H-; Membrane dynamics; Bilayer; Phosphatidylcholine; Cholesterol (Han, X. (1063) 129)

Spin state
Cytochrome *P*-450; Electronic absorption spectra; High-spin/low-spin equilibrium (Jung, C. (1076) 130)

Spin trapping
EPR; Superoxide; Free radical; Hydrogen peroxide; Hydroxyl radical; 5,5-Dimethylpyrroline *N*-oxide (Britigan, B.E. (1075) 213)

Splenic macrophage
Liposome; Drug delivery system; Ganglioside (Liu, D. (1066) 159)

Splicing
snRNP; RNA–protein interaction (Lührmann, R. (1087) 265)

U5 snRNP; U5-specific protein; Protein–RNA interaction (Bach, M. (1088) 139)

Acyl-CoA oxidase; Peroxisome; Regulation; Peroxisome proliferation (Bell, D.R. (1090) 211)

Sponge cell adhesion
Cell adhesion molecule; Sulfated polysaccharide recognition; (*O. tenuis*) (Parish, C.R. (1073) 56)

Spontaneous phospholipid transfer
Reconstituted HDL; LDL; HDL subclass; Non-denaturing gradient gel electrophoresis (Jonas, A. (1085) 71)

Squalene
Lymphocyte; Stimulated lymphocyte; Nuclear lipid; Leukemic lymphocyte; Alkylglycerol (Aliau, S. (1085) 350)

Squalene-tetrahymanol cyclase
Tetrahymanol; Hopanoid; Sterol surrogate; (*Tetrahymena*) (Saar, J. (1075) 93)

SQUID
Manganese superoxide dismutase; EPR; (*T. thermophilus*) (Peterson, J. (1079) 161)

S state
Photosynthesis; Oxygen evolution; Absorption change; Hydroxylamine; Manganese; (*Synechococcus*) (Kretschmann, H. (1059) 208)

Oxygen-evolving system; Absorption spectroscopy; Manganese; Photosystem II center (Lavergne, J. (1060) 175)

Stability
Liposome; Blood circulation time; Pharmacokinetics; Brush formation (Lasic, D.D. (1070) 187)

Stabilization
Brush-border membrane; Glucose transport; Aspartic acid transport; Jejunal vesicle; (Rabbit); (Rat) (Maenz, D.D. (1069) 250)

Stage-specific expression
Arylphorin gene; DNA-binding protein; (*Sarcophaga peregrina*) (Kim, J.W. (1089) 21)

Staphylococcal α-toxin
Membrane permeabilization; Toxin oligomerisation; Adrenocortical Y1 cell; Platelet; Liposome; Electron microscopy (Thelestam, M. (1062) 245)

Staphylococcal epidermolytic toxin
HMG-CoA reductase; Cholesterol; Permeability barrier; Transepidermal water loss (Proksch, E. (1083) 71)

Starch
Glucoamylase; Cyclodextrin; Binding domain (Belshaw, N.J. (1078) 117)

Starch catabolism
Protoplast fractionation; Subcellular metabolite distribution; Chloroplast; (*C. reinhardtii*) (Klöck, G. (1073) 410)

Stark effect
Electrochromism; Chlorophyll *a* monomer; Special pair; Charge transfer; P700 (Krawczyk, S. (1056) 64)

Electric field effect; Antenna complex; Light harvesting complex; Energy transfer (Gottfried, D.S. (1059) 63)

Electric field effect; Carotenoid; Carotenoid bandshift (Gottfried, D.S. (1059) 76)

Staurosporin
Differentiation; Growth regulation; Myeloid leukemia cell; Pyrimidine nucleoside; (HL-60 cell) (Makishima, M. (1094) 1)

Steady state kinetics
Bromoperoxidase; Vanadium bromoperoxidase; Vanadium prosthetic group; Dioxygen formation; (*M. pyrifera*); (*F. distichus*) (Soedjak, H.S. (1079) 1)

Stearylamine
Liposome; DOTMA; BisHOP (Senior, J.H. (1070) 173)

Stearyl-CoA desaturase
Cultured hepatocyte; (Rat) (Legrand, P. (1086) 89)

Stefin A
Protein folding; Fluorescence; Circular dichroism; FPLC; Cysteine proteinase inhibitor (Žerovnik, E. (1078) 313)

Stereoselective
5′-AMP bis(α-aminoacyl) esters; Peptide synthesis (Lacey, J.C. (1076) 395)

Stereoselective drug metabolism
Ibuprofen isomerization; 2-Arylpropionyl-CoA epimerase (Chen, C.-S. (1078) 411)

Steric pressure
Cholesterol; Rippled phase; Hydration pressure (Simon, S.A. (1064) 69)

Steroid
Hepatic lipase; Estradiol; (Rat hepatocyte) (Emmison, N. (1083) 147)

Steroidal hormone
Sulfhydryl; Vitamin D; Intestine; Brush-border membrane; (Chicken) (Tolosa de Talamoni, N. (1094) 224)

Steroid hormone
Lipoprotein; HDL; Androstenediol; Dehydroepiandrosterone; Dihydrotesterone; Estradiol; Pregnenolone; Progesterone (Leszczynski, D.E. (1083) 18)

1,25-Dihydroxyvitamin D-3 receptor; Retinoic acid; Triiodothyronine; Oncogene; (Human osteosarcoma cell) (Mahonen, A. (1088) 111)

Antisteroid; Glucocorticoid receptor; Receptor binding; (Rat liver) (Zakula, Z. (1092) 188)

Steroid hormone receptor
Vitamin D; Vitamin D metabolite; Intestinal nuclei; Calcium; (Pig intestine) (Brown, T.A. (1073) 324)

Steroid hormone transport
Serum protein carrier; Liquid membrane system; Binding coefficient; Partition coefficient (Watanabe, S. (1073) 275)

Steroid hydroxylation
Biliary excretion; Hydrophilicity; Bile salt; (Rat liver) (Crawford, J.M. (1085) 223)

Steroidogenesis
Adrenal microsome; Cytochrome $P\text{-}450_{17\alpha,\text{lyase}}$; Cytochrome $P\text{-}450_{C21}$; Progesterone metabolism (Higuchi, A. (1084) 240)

Mitochondrion; Sphingomyelin degradation; Sphingomyelinase; (Leydig tumor cell); (Mouse) (Pörn, M.I. (1093) 7)

Protein phosphorylation; hCG; cyclic AMP; PMA; (Leydig cell) (Chaudhary, L.R. (1094) 175)

Steroid receptor
Collagen; Gene expression; Glucocorticoid; Dexamethasone; (Heart); (Tendon) (Oikarinen, A. (1089) 40)

Steroid sulfatase
X-inactivation; X-linked ichthyosis; Enzyme polymorphism (Shankaran, R. (1078) 251)

Sterol
Oxysterol; Sterol synthesis; (Yeast) (Casey, W.M. (1081) 279)

Sterol carrier protein 2
Lipid transfer protein, non-specific; Intermembrane transfer; Lipid transfer; Membrane (Gadella Jr., T.W.J. (1070) 237)

Sterol exchange
Sphingomyelin; Synthetic phospholipid; Cholesterol–phosphatidylcholine interaction; Hydrogen bond; Phosphatidylcholine bilayer (Kan, C.-C. (1066) 95)

Sterol–phospholipid interaction
Membrane fluidity; Diphenylhexatriene; Plasma membrane; Membrane organization; (Plant) (Cooke, D.T. (1061) 156)

Sterol surrogate
Squalene-tetrahymanol cyclase; Tetrahymanol; Hopanoid; (*Tetrahymena*) (Saar, J. (1075) 93)

Sterol synthesis
Oxysterol; Sterol; (Yeast) (Casey, W.M. (1081) 279)

Stilbene disulfonate
Lactate transport; Band 3; Inhibitor; Erythrocyte (Poole, R.C. (1070) 69)

Stimulated lymphocyte
Lymphocyte; Nuclear lipid; Leukemic lymphocyte; Squalene; Alkylglycerol (Aliau, S. (1085) 350)

Stoichiometry
Bound substrate; Dihydrofolate reductase; Affinity chromatography (Williams, E.A. (1078) 47)

Stopped-flow
Butyrylcholinesterase; Tubocurarine; Inhibition; Conformation; Modeling (Stojan, J. (1079) 96)

Stopped flow fluorometry
Melittin; Protein–lipid interaction (Sekharam, K.M. (1063) 171)

Stopped flow kinetics
Pregnancy zone protein; α_2-Macroglobulin; Proteolytic enzyme; Fluorescence change (Christensen, U. (1076) 91)

Storage
Aspartate aminotransferase; Heterogeneity; Molecular form; Oxidation; (Chicken liver) (Imperial, S. (1077) 72)

Stored mRNA
Wheat embryo; *S*-Adenosylmethionine synthetase; Enzyme synthesis, de novo; Enzyme induction by methionine (Mathur, M. (1078) 161)

***g*-Strain**
High potential iron-sulfur protein; EPR; Spectroscopy; Mossbauer spectroscopy; Cubane; Structure; Salt effect (Dunham, W.R. (1079) 253)

Stratum corneum lipid
NMR, ^{2}H-; Freeze-fracture; Polymorphism; Barrier function; Ceramide; Hexagonal phase (Abraham, W. (1068) 189)

Streptavidin-biotin system
Fatty acid binding protein; Sandwich ELISA; Langendorff perfusion; (Rat heart) (Vork, M.M. (1075) 199)

Streptozotocin-induced diabetes
Insulin; Glucose transport; Sodium ion/glucose cotransporter; Phlorizin binding; Brush-border membrane vesicle; (Rat small intestine) (Fujii, Y. (1063) 90)

Stress
ADP-ribosylation; Toxin B; Cytopathogenicity; (*C. difficile*); (Human fibroblasts) (Florin, I. (1091) 51)

Stress response
Cell cycle control; DNA repair; Proteolysis; Ribosome assembly; Ubiquitin (Jentsch, S. (1089) 127)

Stretch activation
Potassium ion channel; Volume regulation (Bear, C.E. (1069) 267)

Striatum
ELF electric field; Neurotransmitter; Amino acid (Zecca, L. (1075) 1)

Structural domain
Ovomucoid; Egg-white trypsin inhibitor; Conformation; Equilibrium studies; Kinetic studies; Protein denaturation (Das, B.K. (1076) 343)

Structural gene
Alcohol dehydrogenase; Cytochrome *c*; (*Acetobacter polyoxogenes*) (Tamaki, T. (1088) 292)

Structural gene sequence
Flavodoxin; Amino acid sequence; (*Desulfovibrio desulfuricans*) (Helms, L.R. (1089) 417)

Structural motif
aminoacyl-tRNA synthetase; Protein structure; Nucleotide binding; Evolution (Leberman, R. (1089) 287)

Structural protein
Fibronectin; Indirect immunoperoxidase staining; Lens transparency; Cataract formation; Plasma membrane; (Human lens) (Babizhayev, M.A. (1096) 139)

Structural quantity
Chaos; Correlation integral; N_{14} profile; Tertiary structure (Kubota, Y. (1079) 73)

Structure
High potential iron-sulfur protein; EPR; Spectroscopy; Mossbauer spectroscopy; Cubane; *g*-Strain; Salt effect (Dunham, W.R. (1079) 253)

Structure–activity relationship, quantitative
Uncoupler; Oxidative phosphorylation; (Mitochondria) (Guo, Z.-j. (1059) 91)

Structure determination
11,12-Dihydroxyicosatetraenoic acid; Leukotriene; Arachidonic acid; (Human platelet) (Westlund, P. (1081) 301)

Serum albumin; Glycoprotein variant; (Human); (Albumin Casebrook) (Peach, R.J. (1097) 49)

Structure–function relationship
ATPase, F_1F_0-; Delta subunit; (*E. coli*) (Mendel-Hartvig, J. (1060) 115)

Structure prediction
Peroxidase; Ligninase; Cytochrome *c* peroxidase; Active site; Heme; Evolution (Welinder, K.G. (1080) 215)

Porin; Membrane protein structure; (*R. capsulatus*); (*E. coli*) (Welte, W. (1080) 271)

Styryl dye
Neuron; Membrane potential; Dye; Fluorescence; Electrochromism; Solvatochromism (Fromherz, P. (1068) 149)

Subcellular distribution
α-Fucosidase; Lysosomal enzyme; Glycoprotein; (Human skin fibroblast) (Johnson, K.F. (1073) 120)

Subcellular localization
5′-Nucleotidase; Pancreatic adenocarcinoma; Glycosylation; (Human) (Flocke, K. (1076) 273)

Phospholipase A_2; Gastric mucosa; (Rat) (Grataroli, R. (1082) 130)

Subcellular metabolite distribution
Protoplast fractionation; Chloroplast; Starch catabolism; (*C. reinhardtii*) (Klöck, G. (1073) 410)

Subconductance
Potassium ion channel; Smooth muscle (Stockbridge, L.L. (1064) 212)

Submandibular gland
Prostate gland; Serine proteinase; Tonin (Araujo, G.W. (1074) 167)

Cystatin; β-Adrenergic agonist (isoproterenol); Saliva; Diversity (Nishiura, T. (1077) 346)

Submitochondrial particle
Pyrophosphatase, H^+-; Proton pumping; (*P. sativum*) (Vianello, A. (1060) 299)

Subsite
α-Amylase; Transglycosylation; Maltooligosaccharide; Site-directed mutagenesis; (*Saccharomycopsis*) (Matsui, I. (1077) 416)

Substrate binding
ATPase, Na^+/K^+-; Potassium ion; Enzyme activation (Cornelius, F. (1067) 227)

Substrate binding site
Cytochrome *P*-450; Chemical modification; Membrane topology (Kunz, B.C. (1063) 226)

Substrate modulated interaction
Bienzyme complex; Specificity; Dynamism; Fructose bisphosphate (Vértessy, B.G. (1078) 236)

Substrate specificity
Peptide transport; Proton gradient; Electrogenicity; Iodolabeled peptide; Brush-border vesicle; (Rat kidney) (Tiruppathi, C. (1069) 14)

Carboxypeptidase; Peptide hydrolysis (Khoshtariya, D.E. (1076) 359)

Acid phosphatase; Alkaline phosphatase; Synthetic peptide; Enzymology; Peptide dephosphorylation (Donella-Deana, A. (1094) 130)

Substrate specificity inhibition
Dipeptidyl peptidase IV (Rahfeld, J. (1076) 314)

Subtilisin inhibitor
Trypsin inhibitor; (*D. biflorus*) (Bodhe, A.M. (1073) 11)

β-Subunit
ATPase, F_0F_1-; Beta-subunit; Chloroplast; (*E. coli*) (Munn, A.L. (1060) 82)

Subunit assembly
Intramolecular disulfide bond; Cysteine; Sulfhydryl group; Taste-modifying protein (Igeta, H. (1079) 303)

Subunit contact
Hemocyanin; Cation stabilization; Light scattering; Molecular weight; Subunit dissociation; Ionic stabilization; (*Y. limulata*) (Herskovits, T.T. (1076) 71)

Subunit D
Textilotoxin; Amino acid sequence; Neurotoxin; (*P. textilis*) (Pearson, J.A. (1077) 147)

Subunit dissociation
Ligand binding; Cytochrome *c'*; Hemoprotein (Kassner, R.J. (1058) 8)

Hemocyanin; Cation stabilization; Light scattering; Molecular weight; Ionic stabilization; Subunit contact; (*Y. limulata*) (Herskovits, T.T. (1076) 71)

Cyanide binding; Cytochrome *c'*; Heme protein (Motie, M. (1076) 97)

Earthworm hemoglobin; Hemoglobin; Fluorescence; Front-face fluorometry (Harrington, J.P. (1076) 351)

Subunit IV
Cytochrome *c* oxidase; cDNA; Nucleotide sequence; Cleavable presequence; Mitochondrion; (*Dictyostelium discoideum*) (Rizzuto, R. (1090) 125)

Subunit spectrum
Photosynthesis; Phycocyanin; Bleaching; Copper complex (Woo Park, J. (1056) 181)

Subunit structure
Signal network; Signal specifier; Phosphorylase kinase; Regulatory domain (Heilmeyer, Jr., L.M.G. (1094) 168)

Subunit Vb
Cytochrome oxidase; cDNA; (Mouse) (Basu, A. (1087) 98)

Subunit VI
Cytochrome *c* oxidase; cDNA; Nucleotide sequence; (*Dictyostelium discoideum*) (Rizzuto, R. (1089) 386)

Succinate dehydrogenase
Histidine modification; Diethyl pyrocarbonate; Membrane anchoring protein; (Mitochondria) (Paudel, H.K. (1056) 159)

Quinone; (*B. subtilis*) (Lemma, E. (1059) 281)

Succinate pathway
Propionate; Carboxylation; NMR, ^{13}C-; Methylmalonyl-CoA; Propionyl-CoA : oxaloacetate transcarboxylase; Anaerobic state (Houwen, F.P. (1056) 126)

Succinate thiokinase
Nucleoside diphosphate kinase; Nucleotide specificity; Mitochondrial matrix; (Heart); (Liver); (Rabbit) (Kadrmas, E.F. (1074) 339)

Succinate-ubiquinone reductase
Respiratory chain; Enzyme inhibition; 3-Nitrosalicyl-*N*-alkylamide (Liu, C. (1057) 373)

Succinimide
Fluorescence; Tryptophan; 3-Phosphoglycerate kinase; Protein dynamics (Varley, P.G. (1077) 19)

Succinylacetone
Iron transport; Heme metabolism; Fanconi syndrome; Tyrosinemia; (Rat renal tubule) (Wyss, P.A. (1070) 300)

Succinyl-CoA synthetase
Site-directed mutant; Enzyme mechanism; (*E. coli*) (Majumdar, R. (1076) 86)

Suckling neonate
Bile salt stimulated lipase; Gastric digestion; Gastric lipase; Milk lipid (Iverson, S.J. (1083) 109)

Sucrase-isomaltase
cDNA; mRNA; Sucrose induction; Northern blot analysis; (Rat intestine) (Broyart, J.-P. (1087) 61)

Sucrose
Cyanide; Horseradish peroxidase; Lucifer yellow; ATP; Phosphate transport (Kempson, S.A. (1091) 324)

Sucrose induction
Sucrase-isomaltase; cDNA; mRNA; Northern blot analysis; (Rat intestine) (Broyart, J.-P. (1087) 61)

Sucrose-phosphate synthase
Protein phosphorylation; Enzyme inactivation; Protein kinase; (Spinach leaf) (Huber, S.C. (1091) 393)

Sugar binding
Saccharide; Liposome; Dipalmitoylphosphatidylcholine; Sugar exclusion; DSC (Crowe, L.M. (1064) 267)

Sugar chain, N-linked
Alkaline phosphatase; Isozyme analysis; Sugar chain, O-linked; Immunohistochemical localization; (Human tissue); (Rabbit tissue) (Koyama, I. (1080) 165)

Sugar chain, O-linked
Alkaline phosphatase; Isozyme analysis; Sugar chain, N-linked; Immunohistochemical localization; (Human tissue); (Rabbit tissue) (Koyama, I. (1080) 165)

Sugar chain processing
α-1,2-Mannosidase; Pyridyl amino derivative; (*R. communis*) (Kimura, Y. (1075) 6)

Sugar exclusion
Saccharide; Liposome; Dipalmitoylphosphatidylcholine; Sugar binding; DSC (Crowe, L.M. (1064) 267)

Sugar transport
Osmotic pressure; Electron transfer chain; Membrane function; (*E. coli*) (Houssin, C. (1056) 76)

Suicide substrate
Elastase; Halomethyldihydrocoumarin; Bis(4-acyloxyphenyl)methane (Vilain, A.-C. (1076) 401)

Enzyme kinetics; Enzyme inactivation; Partition ratio (Funaki, T. (1078) 43)

Sulfated polysaccharide
Protein kinase C activity (Herbert, J.-M. (1091) 432)

Sulfated polysaccharide recognition
Cell adhesion molecule; Sponge cell adhesion; (*O. tenuis*) (Parish, C.R. (1073) 56)

Sulfate reducer
Cytochrome *c*; Mono-multiheme; Axial ligand; (*Desulfovibrio*); (Spectroscopy) (Moura, J.J.G. (1058) 61)

Sulfate transport
Anion exchange; (Human placenta) (Cole, D.E.C. (1064) 287)

Sulfatide specificity
Basic peptide; Membrane binding; Vesicle fusion (Stankowski, S. (1068) 61)

Sulfation
Cell retraction; Endocytosis; Signal transduction; Sodium ion/proton antiport (Sit, K.H. (1092) 180)

Sulfhydryl
Tubulin; Microtubule assembly; Thioredoxin; Disulfide; (Bovine brain) (Khan, I.A. (1076) 289)

Vitamin D; Intestine; Brush-border membrane; Steroidal hormone; (Chicken) (Tolosa de Talamoni, N. (1094) 224)

Sulfhydryl compound
Melanogenesis inhibition; 1,3-Thiazolidine; Schiff base; Dihydro-1,4-benzothiazine (Napolitano, A. (1073) 416)

Sulfhydryl group
ATPase, Mg^{2+}-; ATPase, Ca^{2+}-stimulated; Superoxide anion; Hydrogen peroxide; Hypochlorous acid; (Rat heart myofibril) (Suzuki, S. (1074) 95)

Subunit assembly; Intramolecular disulfide bond; Cysteine; Taste-modifying protein (Igeta, H. (1079) 303)

Sulfhydryl reagent
Water diffusion; Red blood cell; NMR; (Human) (Benga, G. (1061) 309)

Sulfidopeptide-leucotriene
5-Lipoxygenase; Arachidonic acid; 5-Hydroxyicosatetraenoic acid; Oxygen saturation; Mucosal blood flow; Gastric ulcer (Pasechnikov, V.D. (1097) 45)

Sulfite reductase
Sirohydrochlorin; Raman spectroscopy (Lai, K.K. (1060) 25)

Sulfolipid
Arylsulfatase A; Arylsulfatase B; Cerebroside sulfatase; Development; (Rat brain) (Van der Pal, R.H.M. (1081) 315)

Sulfonamide binding
Carbonic anhydrase; Dithiothreitol; Quaternary structure; (*C. reinhardtii*) (Husic, H.D. (1078) 35)

Sulfotransferase
Chondroitin sulfate; Detergent; Cartilage (Salač, M.L.B. (1074) 130)

Sulfotyrosine
Tyrosine protein kinase; Progastrin; Phosphotyrosine; Tyrosine protein kinase specificity; (Rat) (Donella-Deana, A. (1095) 75)

Superinducible protein
β_2-Microglobulin; Fibroblast; Fibroblast growth factor; Immunosuppression (Davis, T.R. (1095) 145)

Superoxide
Xanthine oxidase; Hypoxanthine; Xanthine; Uric acid; Inhibition (Rubbo, H. (1074) 386)

Spin trapping; EPR; Free radical; Hydrogen peroxide; Hydroxyl radical; 5,5-Dimethylpyrroline *N*-oxide (Britigan, B.E. (1075) 213)

Bilirubin; NADPH oxidase; Cell-free system; (Pig neutrophils) (Kwak, J.Y. (1076) 369)

N-Formylmethionylleucylphenylalanine; Chemotactic peptide receptor; Iodothyronine; (Human neutrophil) (Aoyagi, K. (1093) 223)

Propranolol; Neutrophil; Signal transduction; Phospholipase D (Gay, J.C. (1095) 236)

Superoxide anion
ATPase, Mg^{2+}-; ATPase, Ca^{2+}-stimulated; Sulfhydryl group; Hydrogen peroxide; Hypochlorous acid; (Rat heart myofibril) (Suzuki, S. (1074) 95)

Vitamin E; Macrophage; Prostaglandin E_2; Intracellular calcium ion (Sakamoto, W. (1074) 251)

Tyrosinase; Thiol inhibitor (Wood, J.M. (1074) 378)

Superoxide dismutase
Membrane fluidity; Ischemia; Lipid peroxidation; EPR (Phelan, A.M. (1067) 97)

Paw edema; Oxygen toxicity; Polymorphonuclear leukocyte; Diamine oxidase (Ando, Y. (1073) 374)

Aging; Sexual dimorphism; Catalase; Glutathione reductase; Glutathione peroxidase (Rikans, L.E. (1074) 195)

Hydrogen peroxide metabolism; Germination; (Soybean) (Puntarulo, S. (1074) 277)

Manganese enzyme; cDNA cloning; Amino acid sequence; Gene expression; (Human) (Church, S.L. (1087) 250)

Superoxide generation
Neutrophil; Inositol hexakisphosphate; Priming; Phagocytosis (Eggleton, P. (1094) 309)

NADPH oxidase; NADPH-cytochrome *c* reductase; Flavoenzyme; Cytochrome *b*-558; (Neutrophil) (Fujii, H. (1095) 201)

Superoxide production
Enzymic mechanism; Free radical (Cross, A.R. (1057) 281)

Superoxyl radical
α-Tocopherol analog; α_1-Proteinase inhibitor; (Human leukocyte) (Bolkenius, F.N. (1095) 23)

Surface activity
Influenza virus hemagglutinin; Hemagglutinin; Fusion peptide; Lipid monolayer; Membrane fusion (Burger, K.N.J. (1065) 121)

Surfactant; Fibrinogen; Respiratory distress syndrome; Apolipoprotein C (Seeger, W. (1081) 45)

Lung surfactant; Phospholipid; Glycerophospholipid; Diether phosphonolipid; Analog; Synthesis; Preparative HPLC; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

Surface charge
Photosynthesis; Thylakoid stacking; Photosystem; Lateral heterogeneity; Chlorophyll *a*/*b* protein (Chow, W.S. (1057) 69)

Surface potential
Lipid monolayer; Lateral conductance; Chaotropic ion (Morgan, H. (1062) 149)

Anionic phospholipid; Phospholipid; Membrane asymmetry; Yeast (Cerbón, J. (1067) 139)

Liposome; Glycerol; Osmotic stress; Permeability; Merocyanine 540 (Biondi, A.C. (1069) 5)

Surface property
Calcium ion adsorption; Phosphatidylcholine vesicle; Sonicated vesicle; Fluorescence quenching (Bakás, L.S. (1065) 114)

Surface transfer
Cholesterol transport; Reverse cholesterol transport; HDL; Plasma membrane (Johnson, W.J. (1085) 273)

Surfactant
Surface activity; Fibrinogen; Respiratory distress syndrome; Apolipoprotein C (Seeger, W. (1081) 45)

ARDS; NRDS; Protein inhibition; Lysophosphatidylcholine (Cockshutt, A.M. (1086) 63)

Lung pressure-volume characteristics; Lung stability; Neutral lipid; Phospholipid; Respiratory distress syndrome; (Preterm rabbit) (Gorree, G.C.M. (1086) 209)

Protein; Phospholipid; Lung; Pulmonary inhibition (Amirkhanian, J.D. (1096) 355)

Surfactant apoprotein
Pulmonary surfactant; Ontogeny (Ogasawara, Y. (1083) 252)

Surfactant associated protein
Pulmonary surfactant; Recombinant DNA; Gene expression; Recombinant protein; (Chinese hamster ovary cell line); (Rat) (McCormack, F.X. (1087) 190)

Surfactant inhibition
Pulmonary surfactant; Palmitic acid; Survanta; Respiratory distress syndrome (Cockshutt, A.M. (1085) 248)

Surfactant protein
Pulmonary surfactant; Development; Glucocorticoid; Dexamethasone (Shimizu, H. (1081) 53)

Surfactant protein D
Pulmonary surfactant; Phospholipid (Kuroki, Y. (1086) 185)

Surfactin
Ion channel; Conductance; Lipid bilayer; Selectivity; (*B. subtilis*) (Sheppard, J.D. (1064) 13)

Survanta
Pulmonary surfactant; Palmitic acid; Surfactant inhibition; Respiratory distress syndrome (Cockshutt, A.M. (1085) 248)

SV40
Ganglioside; GM2; Transformation (Hoffman, L.M. (1084) 94)

DNA methylation; Transcription inhibition; SV40 enhancer; TK gene; (*Xenopus* oocytes) (Götz, F. (1087) 323)

SV40 enhancer
DNA methylation; Transcription inhibition; SV40; TK gene; (*Xenopus* oocytes) (Götz, F. (1087) 323)

SV40 T antigen
Phospholipid; Replication; Transcription (Hirai, H. (1090) 305)

Sweat gland
Ion channel; Potassium; Cystic fibrosis; Rectification (Henderson, R.M. (1097) 219)

Swollen micelle
Sodium bis(2-ethylhexyl) phosphate; Binary system; Ternary system; Vesicle; Transmission electron microscopy; DSC; Interfacial tension (Nakache, E. (1074) 413)

Synaptic
Calpain; NCAM; Plasticity; Cytoskeleton (Sheppard, A. (1076) 156)

Synaptic membrane
Sodium–calcium ion exchange; Calcium ion regulation; Calcium ion transport; Electric organ; (*T. ocellata*) (Tessari, M. (1066) 208)

Synaptic plasma membrane
High affinity transport; Choline; Hemicholinium-3; Monoclonal antibody; Purification (Knipper, M. (1065) 107)

Synaptic vesicle
Cytochrome *b*-561; Dopamine β-hydroxylase; Synaptin/synaptophysin (Schmidle, T. (1060) 251)

$n-3$ Polyunsaturated fatty acid; Plasma membrane; Lipid composition; Membrane fluidity; Fluorescence polarization; (Rat brain) (Zérouga, M. (1086) 295)

Synaptin / synaptophysin
Synaptic vesicle; Cytochrome *b*-561; Dopamine β-hydroxylase (Schmidle, T. (1060) 251)

Synaptosome
Pyrene fatty acid; Pyrene cerebroside sulfate; Lipid peroxidation; Membrane asymmetry (Viani, P. (1064) 24)

Synchrotron radiation
Ether phospholipid; Lipid polymorphism; Microscopy; X-ray diffraction; NMR, ^{31}P- (Lohner, K. (1061) 132)

Synovial fibroblast
Protein kinase C; Plasminogen activator inhibitor (Uhl, J. (1097) 283)

Synthesis
Lipase hydrolysis; Carbohydrate; (*C. rugosa*) (Sanchez-Montero, J.M. (1078) 345)

Lung surfactant; Phospholipid; Glycerophospholipid; Diether phosphonolipid; Analog; Preparative HPLC; Surface activity; Respiratory distress syndrome; RDS; ARDS (Turcotte, J.G. (1084) 1)

PAF agonist; PAF antagonist; Conformation; Electrostatic map, three-dimensional (Lamotte-Brasseur, J. (1085) 91)

Hepatic lipase; Enzyme activity; Immunoinhibition; Maturation; Glycosylation; (Rat hepatocyte) (Verhoeven, A.J.M. (1086) 49)

Synthetic DNA duplex
DNA–protein interaction; Restriction endonuclease; Flanking sequence (Kubareva, E.A. (1088) 395)

Synthetic gene
Tumor necrosis factor; Gene expression; Site-directed mutagenesis; Random mutagenesis; Mutein; (Human) (Ito, R. (1096) 245)

Synthetic lipid
Liposome formation; Encapsulation (Assadullahi, T.P. (1083) 271)

Synthetic oligodeoxyribonucleotide
rRNA, 5S; RNA structure; Ribonuclease H; (Lupin); (Wheat germ) (Barciszewska, M.Z. (1087) 68)

Synthetic oligomer
DNA modification; Carbodiimide; Antibody binding; Enzyme immunoassay; Non-isotopic DNA detection (Wani, A.A. (1088) 259)

Synthetic peptide
Peptide, basic; Ion channel; Planar bilayer; Antibacterial activity (Anzai, K. (1064) 256)

Androgen receptor; Antibody; MAb performance; Immunohistochemistry; Diagnostic; (Human) (Zegers, N.D. (1073) 23)

Protein folding; Creatine kinase; Monoclonal antibody; Epitope mapping; (Human brain) (Man, N. (1076) 245)

Tyrosine protein kinase; *lyn* gene product; Protein phosphorylation; Cell regulation; Enzymology (Brunati, A.M. (1091) 123)

Herpesvirus infection; Phosphorylation site; Protein kinase; Protein kinase A; Protein kinase C (Leader, D.P. (1091) 426)

Acid phosphatase; Alkaline phosphatase; Substrate specificity; Enzymology; Peptide dephosphorylation (Donella-Deana, A. (1094) 130)

Synthetic phospholipid
Sterol exchange; Sphingomyelin; Cholesterol–phosphatidylcholine interaction; Hydrogen bond; Phosphatidylcholine bilayer (Kan, C.-C. (1066) 95)

Systemic lupus erythematosus
Human plasma protein; Thermolabile protein; Hakata antigen (Yae, Y. (1078) 369)

Melanoma antigen; Amino acid homology; (Human) (Gersten, D.M. (1096) 20)

System y^+
Cation effect; Harmaline effect; Amino acid transport; (Human erythrocyte); (Hagfish erythrocyte) (Young, J.D. (1070) 111)

T

Tachyplesin I
Lipid membrane; Permeability; Fluorescence; (*E. coli*) (Matsuzaki, K. (1070) 259)

TALH-SVE
Epithelial cell; NMR; Henle's loop; Renal cell; (Kidney) (Von Recklinghausen, I.R. (1091) 179)

Talin
Cytoskeleton; Lipid selectivity; Lipid–protein interaction; (Platelet) (Heise, H. (1061) 121)

Tammar
Galactosyltransferase; Oligosaccharide; Lactation (Messer, M. (1077) 79)

Tandem mass spectrometry
Cadmium-binding protein; Metallothionein; Mollusc; *N*-Acetylation; Protein structure (Roesijadi, G. (1074) 230)

Metallothionein; cDNA; Polymerase chain reaction; Polymerase chain reaction; Cadmium; *N*-Acetylation; (Mollusc); (Oyster) (Unger, M.E. (1074) 371)

Targeted drug delivery
Liposome; Circulation time; Poly(ethylene glycol); Drug targeting; Ganglioside (Klibanov, A.L. (1062) 142)

Taste-modifying protein
Subunit assembly; Intramolecular disulfide bond; Cysteine; Sulfhydryl group (Igeta, H. (1079) 303)

Taurine
Hypotaurine; Radical scavenger; Neurophil activation; Antioxidant; (Human neutrophil) (Green, T.R. (1073) 91)

NMR, ^{1}H-; Liver development; Betaine; Phosphocholine; Glycerophosphorylcholine (Rafter, J.E.M. (1074) 263)

Taurine transport
Proton/taurine cotransport; Sodium ion dependent uptake; Chloride effect; (Pars convoluta); (Pars recta); (Rabbit kidney) (Jessen, H. (1064) 189)

K pathway; Choline transport; Cell volume regulation; Ionic strength; Trout erythrocyte; DIDS (Motais, R. (1075) 169)

Taurocholate
Bile; Bile duct; Fat absorption; Phosphatidylcholine (Knox, R. (1083) 65)

Taurolipid biosynthesis
Lipotaurine; (*Tetrahymena*) (Kaya, K. (1084) 101)

Tay-Sachs disease
Lysosomal storage disease; β-Hexosaminidase isozyme; Sandhoff disease (Mahuran, D.J. (1096) 87)

T cell
Interleukin-2 gene; Gene transfection; Calcium-inducible expression; (Human) (Gulino, A. (1087) 7)

Thymocyte; Thymosin β_4; Cell cycle; Cell proliferation (Schöbitz, B. (1095) 230)

T cell antigen receptor
Regulation; Actin; mRNA; Phorbol ester; Protein kinase C; Cyclosporin A (Goodier, M.R. (1092) 124)

T cell receptor
cyclic AMP; Protein kinase C; Receptor cross-talk (Kvanta, A. (1093) 178)

T cell regulation
Nitrite; Interferon γ; Immune response (Takagi, K. (1092) 15)

T47D
Lipid metabolism; Choline; Ethanolamine; NMR, ^{31}P-; NMR, ^{13}C-Spheroid (Ronen, S.M. (1095) 5)

Teichoic acid
Cell wall; NMR, ^{13}C-; (*Streptomyces*) (Tul'skaya, E.M. (1074) 237)

Teicoplanin resistance
DNA sequence; (*A. teichomyceticus*) (Sosio, M. (1089) 401)

Temperature
Acetylcholine receptor; Channel kinetics; Arrhenius plot (Dilger, J.P. (1063) 253)

Vesicle formation; Membrane skeleton; pH, intracellular; Electron microscopy; (Humanerythrocyte) (Lelkes, G. (1065) 135)

Temperature adaptation
Homeoviscous adaptation; Desaturase; DPH polarization; Fluorescence (Wodtke, E. (1064) 343)

Temperature dependence
Phosphatidylcholine; Flip-flop; Acyl-CoA; Arginine; (Human erythrocyte) (Andrick, C. (1064) 235)

Activation enthalpy; Dielectric relaxation; Dielectric dispersion (Pedone, F. (1073) 580)

Temperature effect
Low temperature; Lipid rigidity; Charge recombination; pH; Photosynthesis (Sebban, P. (1057) 109)

Temperature jump
Proton transport; Liposome; Membrane; Ion transport (Prabhananda, B.S. (1070) 481)

Chemical relaxation; Association rate; Guanosine 2′-monophosphate; Guanosine 3′-monophosphate (MacKerell Jr., A.D. (1073) 357)

Terbium-adriamycin complex
Sinus node automaticity (Canada, R.G. (1073) 136)

Ternary system
Sodium bis(2-ethylhexyl) phosphate; Binary system; Vesicle; Swollen micelle; Transmission electron microscopy; DSC; Interfacial tension (Nakache, E. (1074) 413)

Tertiary structure
Chaos; Correlation integral; N_{14} profile; Structural quantity (Kubota, Y. (1079) 73)

Testicular cancer
DNA methylation; Hypomethylation; (Human) (Peltomäki, P. (1096) 187)

Testis
cDNA; Creatine kinase (Garber, A.T. (1087) 256)

Tetracosahexaenoic acid
Very-long-chain fatty acid; $(n-3)$, $(n-6)$ Polyunsaturated fatty acid; Tetracosapentaenoic acid; (Coelenterated) (Vysotskii, M.V. (1083) 161)

Tetracosapentaenoic acid
Very-long-chain fatty acid; $(n-3)$, $(n-6)$ Polyunsaturated fatty acid; Tetracosahexaenoic acid; (Coelenterated) (Vysotskii, M.V. (1083) 161)

Tetracycline-resistance determinant
Replication origin; Chromosomal location; Multiple integration; (Bacillus) (Amano, H. (1088) 251)

Tetraether lipid
Helical peptide; Lipid phase transition; Differential thermal analysis (Blöcher, D. (1065) 160)

5,6,7,8-Tetrahydromethanopterin
Methylenetetrahydromethanopterin dehydrogenase; Coenzyme F_{420}; Deazaflavin; Methanogenesis; (*M. thermoautotrophicum*) (Te Brömmelstroet, B.W. (1073) 77)

Methylenetetrahydromethanopterin dehydrogenase; Methylenetetrahydromethanopterin reductase; Coenzyme F_{420}; (*M. barkeri*) (Te Brömmelstroet, B.W.J. (1079) 293)

Tetrahymanol
Squalene-tetrahymanol cyclase; Hopanoid; Sterol surrogate; (*Tetrahymena*) (Saar, J. (1075) 93)

Tetrameric structure
5′-Nucleotidase; (Human seminal plasma) (Minelli, A. (1080) 252)

Tetrathiafulvalene cation
Plasmalemma redox system; (*Hydrodictyon reticulatum*) (Metlička, R. (1069) 175)

Textilotoxin
Subunit D; Amino acid sequence; Neurotoxin; (*P. textilis*) (Pearson, J.A. (1077) 147)

TGF-β
Procollagen; Collagen; Fibroblast; Collagen synthesis; Collagen degradation; Growth factor (McAnulty, R.J. (1091) 231)

TIMP; Fibroblast; In vitro; Connective tissue breakdown (Wright, J.K. (1094) 207)

Thalassemia
Erythrocyte; Hemolysis; Iron deficiency; Spherocytosis; pH effect; Band 3 protein (Sauer, A. (1063) 203)

Theoretical model
Metabolic regulation; Graph-theoretic analysis; Flux control coefficient (Sen, A.K. (1059) 293)

Lipid monolayer; Phosphatidylcholine; Phospholipase A_2; Gel phase; Line defect; Computer simulation (Pink, D.A. (1065) 167)

Thermal denaturation
Pepsin; Energetic domain (Makarov, A.A. (1078) 283)

Thermal hysteresis
AFGP; DSC; (Antarctic fish) (Hansen, T.N. (1079) 169)

Thermal hysteresis protein
Antifreeze protein; Cold tolerance; Insect antifreeze (Wu, D.W. (1076) 416)

Thermal stability
Proteoglycan; Glycosaminoglycan; LDL modification; Apolipoprotein B polar region; Proteolysis (Camejo, G. (1096) 253)

Thermal transition
Pesticide; Hexachlorocyclohexane; Erythrocyte membrane; Raman spectroscopy; Protein structure (Verma, S.P. (1070) 265)

Thermodynamic nonideality
Antithrombin; Thrombin (Hogg, P.J. (1073) 609)

Thermodynamics
Dynamic model; Oxidative phosphorylation; Respiration (Korzeniewski, B. (1060) 210)

Sphingomyelin; Lipid bilayer; X-ray diffraction; DSC (Maulik, P.R. (1062) 211)

Actin polymerization; ATP; ADP; Calcium ion; Magnesium ion (Kinosian, H.J. (1077) 151)

Thermolabile protein
Human plasma protein; Hakata antigen; Systemic lupus erythematosus (Yae, Y. (1078) 369)

Thermophile
Glutamate dehydrogenase; Archaebacterium; (*S. solfataricus*) (Schinkinger, M.F. (1073) 142)

Thermophilic protein
Glutamine synthetase; Unfolding; Guanidine-HCl; Refolding (Wedler, F.C. (1076) 161)

Thermostability
Ferredoxin methanogen; Protein sequence; Molecular modelling; (Archaebacteria) (Bruschi, M. (1076) 79)

Lipase; Organic solvent-soluble lipase; Enzymatic reactivity; Detergent (Tsuzuki, W. (1083) 201)

Thermostable
Chitinase; (*Bacillus*) (Takayanagi, T. (1078) 404)

Thermostable enzyme
L-Arginine amidinohydrolase; Arginase; Enzyme inactivation; Manganese enzyme; (*B. caldovelox*) (Patchett, M.L. (1077) 291)

Thermotropic behavior
Antitumor agent; Phospholipid vesicle; α-Sarcin (Gasset, M. (1068) 9)

Thermotropic properties
Proteoliposome; Concanavalin A; D-Glucose; Permeability (Francis, S.E. (1062) 117)

Thiamine triphosphatase
Thiamine triphosphate; Detergent solubilization; Anion; (*E. electricus*) (Bettendorff, L. (1073) 69)

Thiamine triphosphate
Thiamine triphosphatase; Detergent solubilization; Anion; (*E. electricus*) (Bettendorff, L. (1073) 69)

Thiazide receptor
Sodium; Chloride; Microsome; Percoll; (Rabbit kidney) (Ellison, D.H. (1069) 241)

1,3-Thiazolidine
Melanogenesis inhibition; Sulfhydryl compound; Schiff base; Dihydro-1,4-benzothiazine (Napolitano, A. (1073) 416)

Thimerosal
Thymus lymphocyte; Intracellular calcium; pH, intracellular; Fructose 2,6-bisphosphate (Martín, F. (1091) 110)

Thiocyanate
Lactoperoxidase; Horseradish peroxidase (Modi, S. (1080) 45)

Thiol
Anion transport; Mitochondrion; *N*-Ethylmaleimide; Mercurial (Beavis, A.D. (1063) 111)

Singlet oxygen; Single-strand break; DNA damage (Devasagayam, T.P.A. (1088) 409)

Thiolase deficiency
Gene characterization; 3-Oxoacyl-CoA; β-Oxidation; Peroxisome; (Human) (Bout, A. (1090) 43)

Thiol-disulfide regulation
Heme catabolism; Biliverdin reductase; Protein antigenicity; Oxidative stress; (Rat liver) (Frydman, J. (1076) 321)

Thiol group
Glyceralde-3-phosphate dehydrogenase; Amino acid modification; Enzyme conformation; Active site; Arginine modification; (Rabbit muscle) (Kuzminskaya, E.V. (1075) 123)

Thiol inhibitor
Tyrosinase; Superoxide anion (Wood, J.M. (1074) 378)

Thiol reactivity
Cross-linking; Maltoprin variant; Cysteine substitution; Membrane protein; Membrane topology; Affinity chromatography; (*E. coli*) (Francis, G. (1067) 89)

Thiophosphorylation
Nucleoside diphosphate kinase; GTP-binding protein; (Spinach leaf) (Nomura, T. (1077) 47)

Thioredoxin
Tubulin; Microtubule assembly; Sulfhydryl; Disulfide; (Bovine brain) (Khan, I.A. (1076) 289)

Three-dimensional structure
Echinomycin; Distance geometry; NMR (Yu, C. (1075) 141)

Threonine
Plasma membrane; Amino acid transport; (Human fibroblast) (Bussolati, O. (1070) 305)

Threonine dehydratase
Carbamoylphosphate; Carbamoylpyridoxal 5′-phosphate; (Rat liver) (Pagani, R. (1077) 233)

Thrombin
Antithrombin; Thermodynamic nonideality (Hogg, P.J. (1073) 609)

PAF synthesis; Endothelium; Calcium; Protein kinase C; cyclic AMP (Heller, R. (1093) 55)

Butylated hydroxytoluene; Protein kinase C; Protein phosphorylation (Ruzzene, M. (1094) 121)

Thrombosis
Omega-3 fatty acid; Platelet; Fish oil; Icosapentaenoic acid (Wojenski, C.M. (1081) 33)

Thromboxane
Glutathione; Hepatic blood flow; Prostacyclin; Diethyl maleate (Bottje, W. (1073) 168)

Endotoxin; Arachidonic acid; Protein synthesis; Protein kinase C; Macrophage; (*S. enteritidis*) (Geisel, J. (1085) 15)

Thromboxane A_2
PAF; *N*-Formylmethionylleucylphenylalanine; (Human polymorphonuclear neutrophil) (Kishino, J. (1092) 169)

Thromboxane metabolism
Smoking (Uedelhoven, W.M. (1081) 197)

Thryroglobulin gene
DNAase I footprinting; Gene expression; (Canine) (Donda, A. (1090) 235)

Thylakoid
Galactolipid; Bilayer; Photosynthesis; Lipid property (Webb, M.S. (1060) 133)

Thylakoid biogenesis
Chloroplast biogenesis; Galactolipid; Cell-free system; (*S. oleracea*); (*P. sativum*) (Morré, D.J. (1070) 437)

Thylakoid membrane
Photosystem I; Antenna size; Phase partition; (Sonication); (Spinach chloroplast) (Svensson, P. (1060) 45)

Thylakoid potential
Charge separation; Chlorophyll fluorescence; Electrochromic absorption change; Time constant (Dau, H. (1057) 337)

Thylakoid stacking
Photosynthesis; Photosystem; Lateral heterogeneity; Surface charge; Chlorophyll *a*/*b* protein (Chow, W.S. (1057) 69)

Photosynthesis; Water oxidation; Proton; Neutral red (Jahns, P. (1057) 313)

Δ^3-*trans*-Hexadecenoic acid; Excitation energy transfer; Light-harvesting chlorophyll-protein complex; (*C. reinhardtii*) (Trémolières, A. (1059) 286)

Thymidine
Density-inhibition; Nucleotide; Degradation (Nakano, S. (1094) 263)

Thymidine kinase
Fluorouracil; Thymidylate synthase; DNA synthesis; Liver regeneration; (Rat) (Tsukamoto, I. (1074) 52)

Regenerating liver; (Rat) (Tsukamoto, I. (1079) 348)

Progestin; Human breast cancer; Breast cancer (Moore, M.R. (1096) 170)

Thymidylate synthase
Fluorouracil; Thymidine kinase; DNA synthesis; Liver regeneration; (Rat) (Tsukamoto, I. (1074) 52)

Gene expression; Recombinant DNA; Enzyme purification; NMR, ^{19}F-; (Mouse); (*E. coli*) (Zhang, H. (1077) 35)

Thymocyte
Thymosin β_4; Cell cycle; Cell proliferation; T cell (Schöbitz, B. (1095) 230)

Thymosin α_1
Prothymosin α; Nucleotide sequence; Amino acid sequence; Secondary structure (Schmidt, G. (1088) 442)

Thymosin β_4
Thymocyte; Cell cycle; Cell proliferation; T cell (Schöbitz, B. (1095) 230)

Thymus lymphocyte
Thimerosal; Intracellular calcium; pH, intracellular; Fructose 2,6-bisphosphate (Martín, F. (1091) 110)

Thyroid hormone
Retinoic acid; Heme oxygenase (Smith, T.J. (1075) 119)

Thyroxine; Cardiolipin synthase; Mitochondrion (Hostetler, K.Y. (1086) 139)

Triiodothyronine; Cardiomyocyte; Sodium channel; Slow inactivation; Patch clamp (Harris, D.R. (1095) 175)

Thyroid hormone, T_3
Glucose transport; GLUT-1; GLUT-1 mRNA; Cytochalasin B; Clone 9 cell (Kuruvilla, A.K. (1094) 300)

Thyroxine
Sarcoplasmic reticulum; Calcium ion accumulation (Shoshan-Barmatz, V. (1065) 82)

Thyroid hormone; Cardiolipin synthase; Mitochondrion (Hostetler, K.Y. (1086) 139)

Polyamine; Ornithine decarboxylase; Difluoromethyl ornithine; Pancreatic growth; Enzyme (Lin, C.-H. (1093) 65)

Cardiomyocyte; Heart hypertrophy; Mitochondrion; ATP synthase; (Rat) (Das, A.M. (1096) 284)

Time constant
Charge separation; Chlorophyll fluorescence; Electrochromic absorption change; Thylakoid potential (Dau, H. (1057) 337)

TIMP-2
Metalloproteinase; Collagenase IV (Craig, F.M. (1074) 243)

Progelatinase metalloproteinase, 72 kDa; Metalloproteinase; Activation; Enzyme activation; (Human fibroblast) (Ward, R.V. (1079) 242)

TGF-β; Fibroblast; In vitro; Connective tissue breakdown (Wright, J.K. (1094) 207)

Tissue culture
Phosphorylation; Vitreous humor; Iris-ciliary complex; Growth inhibition (Banerjee, A. (1077) 56)

Tissue inhibitor
Collagenase; Metalloproteinase inhibitor; Angiogenic factor (McLaughlin, B. (1073) 295)

Collagenase, type IV; Gelatinase; Metalloproteinase; Interleukin-1; Tumor necrosis factor α; (Rabbit); (Articular chondrocyte) (Lefebvre, V. (1094) 8)

Tissue space
Perfused brain; Electroencephalogram; Oxygen consumption; (Rat) (Harvey, S.A.K. (1073) 486)

Tissue-specific expression
Fatty acid binding protein; Retinol-binding protein; Myelin P_2; Fatty acid binding site; Differentiation; Peroxisomal proliferator; (Liver, Heart, Muscle, Kidney, Adipocyte) (Veerkamp, J.H. (1081) 1)

Tissue-specific gene expression
α_1-Microglobulin; mRNA; Gene regulation; cDNA cloning; (Pig) (Tavakkol, A. (1088) 47)

Tissue-type expression
Prothrombin mRNA; mRNA; Developmental expression; Gestation; (Rat) (Jamison, C.S. (1088) 208)

Tissue-type plasminogen activator
Fibrinogen; ϵ-Aminohexanoic acid (Urano, T. (1077) 245)

Plasminogen activator inhibitor; Anionic detergent (Gaussem, P. (1079) 321)

TK gene
DNA methylation; Transcription inhibition; SV40; SV40 enhancer; (*Xenopus* oocytes) (Götz, F. (1087) 323)

TLC
Peroxisomal enzyme; Alkyldihydroxyacetone-phosphate synthase; Localization; Acyldihydroxyacetone; (Rat liver) (Hardeman, D. (1081) 285)

Glycero-3-phosphocoline; Phospholipid synthesis; (Rat liver mitochondria); (Rat lung mitochondria) (Veldhuizen, R.A.W. (1083) 211)

Chloramphenicol acetyltransferase; Transcription system; Transfection; Bacterium; (Rat liver) (De Maio, A. (1087) 303)

T lymphocyte
HIV; Lymphocyte–virus interaction; Immune recognition; Receptor binding (Phillips, R.E. (1096) 10)

TMV
Plant virus; Virus; CCMV; Coat protein; Lipid–protein interaction (Spruijt, R.B. (1065) 217)

Tobacco plasma membrane
Phosphatidylinositol kinase; Phosphatidylinositol 4-phosphate kinase; Phospholipase C; Diacylglycerol kinase; Calcium ion regulation (Kamada, Y. (1093) 72)

α-Tocopherol
Ascorbate; Blood cell membrane; Hematoporphyrin; Photosensitization; Quercetin (Jan, C.-Y. (1086) 7)

α-Tocopherol analog
α_1-Proteinase inhibitor; Superoxyl radical; (Human leukocyte) (Bolkenius, F.N. (1095) 23)

Tonin
Prostate gland; Serine proteinase; Submandibular gland (Araujo, G.W. (1074) 167)

Tonoplast
Cation channel; Charybdotoxin; Vacuolar membrane; Patch-clamp technique; (*Chenopodium rubrum*) (Weiser, T. (1066) 109)

Plasma membrane; Hexose transporter kinetics; *N*-Ethylmaleimide; (*N. tabacum*) (Verstappen, R. (1073) 366)

Topoisomerase II
DNA damage; Drug resistance; Damage factor (Sinha, B.K. (1097) 111)

Topoisomerase II-DNA complex formation enhancing factor
Amsacrine; Casein kinase II; Nucleus; (Murine mastocytoma cell) (Darkin-Rattray, S.J. (1088) 285)

Topology
Cytochrome b_6f; Chemical crosslinking; (Spinach thylakoid) (Shallan, M.A.-A.M. (1057) 64)

Total lipid
Phosphatidylethanolamine; Phosphatidylglycerol; Sodium chloride; Hexagonal H_{II} phase; Halophilic bacterium (Sutton, G.C. (1061) 235)

Toxin B
ADP-ribosylation; Stress; Cytopathogenicity; (*C. difficile*); (Human fibroblasts) (Florin, I. (1091) 51)

Toxin oligomerisation
Staphylococcal α-toxin; Membrane permeabilization; Adrenocortical Y1 cell; Platelet; Liposome; Electron microscopy (Thelestam, M. (1062) 245)

TPA
Gene transfer; Protein kinase C (Reston, J.T. (1088) 270)

T7 polymerase / promoter
DNA sequencing; *pur*H and *pur*D (Chopra, A.K. (1090) 351)

Transbilayer movement
PAF; Membrane phospholipid asymmetry; Merocyanine 540 (Bratton, D.L. (1062) 24)

Transcellular pathway
Potassium diet; Aldosterone; Paracellular pathway; (Rat jejunum) (Capurro, C. (1065) 1)

Transcription
Molecular evolution; Xanthine dehydrogenase; *Rosy* locus; Genetic transformation; (*Calliphora vicina*); (*Drosophila melanogaster*); (*Dipteran*) (Tiveron, M.-C. (1088) 390)

Mitochondrial RNA processing RNA; RNA polymerase III; Cloning; (Human) (Yuan, Y. (1089) 33)

Insulin-like growth factor II (IGFII); Multiple leader exon; Heterogeneous mRNA; (Mouse) (Ikejiri, K. (1089) 77)

Cycloheximide; Pactamycin; Protein synthesis; mRNA decay; (*Dictyostelium discoideum*) (DeSilver, D.A. (1089) 309)

SV40 T antigen; Phospholipid; Replication (Hirai, H. (1090) 305)

Transcription activation
Ribosomal protein gene; ABF1; (Yeast) (Kraakman, L.S. (1090) 204)

Transcription activity
Gene expression; Transcription control; Promoter sequence; (*S. aureofaciens* 2201) (Farkašovský, M. (1088) 119)

Transcriptional control
Histone gene expression; Cell cycle (Heintz, N. (1088) 327)

Transcriptional regulation
Cyclooxygenase; Dexamethasone; Renal function; Parturition; Ovulation; Inflammation; (3T3 fibroblast); (HL-60); (U937); (Endothelial cell); (MC3T3-E1 cell) (DeWitt, D.L. (1083) 121)

Transcriptional synergism
Glucocorticoid receptor; DNA binding; Chromatin binding; Negative regulation; Heat shock protein (Muller, M. (1088) 171)

Transcription control
Gene expression; Transcription activity; Promoter sequence; (*S. aureofaciens* 2201) (Farkašovský, M. (1088) 119)

Transcription factor
Plasma protein; Gene expression; Deleted mutant; (Bombyx) (Sakurai, H. (1087) 18)

Eukaryotic transcription; Nuclear extract; Phospholipid; Cardiolipin; Chlorpromazine; (Ehrlich ascites tumor cell) (Hirai, H. (1088) 191)

Transcription inhibition
DNA methylation; SV40; SV40 enhancer; TK gene; (*Xenopus* oocytes) (Götz, F. (1087) 323)

Transcription, in vitro
Tropomyosin; Muscle gene; (*Drosophila*) (Lichter, J.B. (1088) 419)

Transcription rate
Nitrate reductase; Nitrate induction (Callaci, J.J. (1088) 127)

Transcription suppression
Coenzyme A reductase; Gene amplification; Gene localization; (CR200 cells) (Hasumi, K. (1083) 289)

Transcription system
Chloramphenicol acetyltransferase; Transfection; Bacterium; TLC; (Rat liver) (De Maio, A. (1087) 303)

Transepidermal water loss
HMG-CoA reductase; Cholesterol; Staphylococcal epidermolytic toxin; Permeability barrier (Proksch, E. (1083) 71)

Transfection
DNA; Polylysine; Drug delivery; Drug targeting; Gene therapy (Zhou, X. (1065) 8)

Ricin B chain; Liposome; Galactosyl binding site; (Rat hepatoma cell) (Friede, M.H. (1069) 273)

Apolipoprotein E; Lipoprotein metabolism; (Chinese hamster ovary cell) (Shimano, H. (1086) 245)

Chloramphenicol acetyltransferase; Transcription system; Bacterium; TLC; (Rat liver) (De Maio, A. (1087) 303)

CAP; Chloramphenicol acetyltransferase; Gel mobility shift (Kihara, F. (1089) 227)

Liposome; Gene replacement therapy; DNA (Hug, P. (1097) 1)

Transference number
Microelectrode; Transmembrane potential; Intracellular potassium ion activity; Hyperosmotic stress; Potassium, intracellular; Cell volume; (Mouse liver) (Wang, K. (1069) 187)

Transfer protein
Phospholipid transfer protein; Plasmalogen; Pyrene-labeled glycerophospholipid; Fluorescence; Yeast (Szolderits, G. (1063) 197)

Lipid emulsion; HDL; Cholesteryl ester; Phosphatidylcholine; Retinyl ester; (Rat); (Rabbit) (Martins, I.J. (1081) 328)

Transferrin
Iron uptake; Liver perfusion; Transferrin receptor; NADH–acceptor oxidoreductase (Goldenberg, H. (1067) 145)

Membrane transport; Iron transport; Active transport; Non transferrin-bound iron; Reticulocyte; (Rabbit) (Qian, Z.M. (1073) 456)

Fluorescence quenching; Energy transfer; Pentaammine ruthenium-histidine (Martin, D.M. (1076) 252)

Estrogen sulphotransferase; Isomorphic form; (Bovine placenta) (Adams, J.B. (1076) 282)

cDNA sequence; Anion binding; Protein evolution (Banfield, D.K. (1089) 262)

Melanotransferrin; Iron; Melanoma cell (Richardson, D.R. (1091) 294)

Melanotransferrin; Iron; (Melanoma cell) (Richardson, D. (1093) 20)

Transferrin receptor
Transferrin; Iron uptake; Liver perfusion; NADH–acceptor oxidoreductase (Goldenberg, H. (1067) 145)

Transformation
Ganglioside; GM2; SV-40 (Hoffman, L.M. (1084) 94)

Electroporation in vivo; Mouse skin (Titomirov, A.V. (1088) 131)

Electropermeabilization; ATP leakage; (*S. typhimurium*); (*E. coli*) (Sixou, S. (1088) 135)

Endothelial cell; Hyaluronic acid synthesis; Hyaluronic acid synthetase inhibitor (Amanuma, K. (1092) 336)

Transformed cell
Lipid–cholesterol interaction; Model membrane; Liposome; DSC (Kariel, N. (1062) 70)

Transforming growth factor
Proteoglycan synthesis; (Rabbit articular chondrocytes) (Redini, F. (1093) 196)

Proteoglycan synthesis; (Human embryonic lung fibroblast) (Romarís, M. (1093) 229)

Transforming growth factor β_1
α-Macroglobulin; Plasmin; Transforming growth factor β_2 (LaMarre, J. (1091) 197)

Transforming growth factor β_2
α-Macroglobulin; Plasmin; Transforming growth factor β_1 (LaMarre, J. (1091) 197)

Transgenic mouse
Apolipoprotein E; Metallothionein promotor; Lipoprotein metabolism (Shimano, H. (1090) 91)

Transglucosylation
Cyclodextrin glucanotransferase; Ascorbic acid 2-*O*-α-glucoside; Ascorbic acid; Oligosaccharide; α-Glucosidase (Tanaka, M. (1078) 127)

Transglutaminase
Coagulating gland; Glycosylphosphatidylinositol anchor; GTP affinity; (Rat) (Seitz, J. (1078) 139)

Transglycosylation
Exo-cellobiohydrolase; 4-Methylumbelliferyl β-D-cellobioside; (*T. longibrachiatum*) (Gusakov, A.V. (1073) 481)

α-Amylase; Maltooligosaccharide; Site-directed mutagenesis; Subsite; (*Saccharomycopsis*) (Matsui, I. (1077) 416)

Transient outward current
Potassium current; A-current; Calcium current; (*E. vannus*) (Krüppel, T. (1062) 193)

Transition metal
LDL, oxidized; Atherosclerosis; Lipid peroxidation; Cytotoxicity; (Bovine aortic endothelial cell) (Kuzuya, M. (1096) 155)

Transition state
Aldehyde reductase; Enzyme kinetics; Hammett plot; (Human kidney) (Bhatnagar, A. (1077) 180)

Transition temperature
Phosphatidylcholine; Phosphatidylethanolamine; Hexagonal transition; Chainlength dependence (Marsh, D. (1062) 1)

Translation
mRNA; Posttranscriptional gene regulation; RNA–protein interaction; Poly(A) (Hentze, M.W. (1090) 281)

Fibroblast growth factor; RNA secondary structure (Forough, R. (1090) 293)

Translational control
Ornithine decarboxylase; Polyamine; Polysome profile (Stjernborg, L. (1090) 188)

tRNA; Estrogen regulation; Ribosome; Aminoacylation (Whelly, S.M. (1092) 218)

Translational diffusion
Planar model membrane; Cell surface immunochemistry; Fluorescence microscopy; Fluorescence photobleaching recovery (Timbs, M.M. (1064) 219)

Translational regulation
Bacteriophage M13; Filamentous phage; Single-stranded DNA binding protein (Zaman, G. (1089) 183)

Translation initiation
Encephalomyocarditis virus; capped mRNA; (Rabbit reticulocyte lysate) (Jackson, R.J. (1088) 345)

Translation initiation region
Gene expression; Parathyroid hormone; (Human gene); (*E. coli*) (Morelle, G. (1089) 320)

Translocation
Islets of Langerhans; Glyceraldehyde; Protein kinase C; Phorbol ester; Insulin secretion (Persaud, S.J. (1095) 183)

Transmembrane potential
Microelectrode; Intracellular potassium ion activity; Hyperosmotic stress; Transference number; Potassium, intracellular; Cell volume; (Mouse liver) (Wang, K. (1069) 187)

Transmembrane transport
Hepatocyte; Iron uptake; Calcium (Nilsen, T. (1095) 39)

Transmission electron microscopy
Sodium bis(2-ethylhexyl) phosphate; Binary system; Ternary system; Vesicle; Swollen micelle; DSC; Interfacial tension (Nakache, E. (1074) 413)

Transphosphatidylation
Phosholipase D; Phosphatidic acid; 1,2-Diacylglycerol; Sarcolemma; Sarcoplasmic reticulum; (Rat heart) (Panagia, V. (1064) 242)

Transport
Cyclopeptide; Bile acid; Hepatocyte; (Rat liver) (Ziegler, K. (1061) 287)

Malate carrier; Reconstitution; Vacuole; (*Hordeum vulgare*) (Martinoia, E. (1062) 271)

Mitochondrion; Coenzyme A; (Rat heart) (Tahiliani, A.G. (1067) 29)

Carnitine carrier; Reconstitution; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1069) 110)

Pyruvate (monocarboxylate) carrier; Mitochondrion; Purification; Reconstitution; Yeast (Nałęcz, M.J. (1079) 87)

Transport ATPase
ATPase, H^+-; ATP site; Plant ATPase; (*A. sativa*) (Roberts, G. (1064) 131)

Transport capacity
Lactate transport; Sarcolemmal vesicle; Saturation kinetics; pH dependency; Inhibitor sensitivity (Juel, C. (1065) 15)

Transport kinetics
Hexose transport; Carrier; Deuterium oxide; (Rat erythrocyte) (Naftalin, R.J. (1064) 37)

Glucose transport; Glycosylation; (Human erythrocyte) (Feugeas, J.-P. (1066) 59)

Carrier mobility; Adenine transport; Hypoxanthine transport; (Human erythrocyte) (Kraupp, M. (1070) 157)

Transport system
Diethyl pyrocarbonate; Brush-border membrane transporter; Chemical modification (Beaumier, B. (1068) 142)

Transposable phage
D3112 left end; Nucleotide sequence; Repressor protein; IHF; (*Pseudomonas*) (Autexier, C. (1088) 147)

Transthyretin
Familial amyloidotic polyneuropathy; Gene structure (Harding, J. (1097) 183)

Basic variant; Amyloidosis; Polymorphism; Peptide mapping; Plasma protein (Almeida, M.R. (1097) 224)

Transverse tubule
Phosphoinositide; Polyphosphoinositide kinase; Phosphoinositidase; Sarcoplasmic reticulum; ((Frog) skeletal muscle) (Asotra, K. (1081) 229)

Trauma
Dexamethasone; Amino acid; Cell membrane (Hundal, H.S. (1092) 376)

Triacylglycerol
Probucol; Hepatocyte primary culture; Lipid secretion; Cholesterol; Phospholipid (De La Vega, F.M. (1081) 293)

Triacylglycerol lipase; HDL; Phospholipid; (Rat liver) (Marques-Vidal, P. (1082) 185)

Ketone body synthesis; Citric acid cycle; Fatty acid esterification; (Rat hepatocyte) (Henly, D.C. (1092) 277)

Triacylglycerol lipase
HDL; Phospholipid; Triacylglycerol; (Rat liver) (Marques-Vidal, P. (1082) 185)

Triacylglycerol metabolism
Chylomicron; Lipoprotein remnant; Cholesteryl ester metabolism; Plasma cholesterol; LDL receptor; Lipoprotein lipase; WHHL; (Rabbit) (Mamo, J.C.L. (1081) 241)

Neutral lipid storage disease; Phosphatidylethanolamine; Phosphatidylcholine; Phospholipid biosynthesis; (Human fibroblast cell line) (Williams, M.L. (1096) 162)

Triacylglycerol synthesis
Fish oil; Hepatomegaly; Cholesterol; Glucose-6-phosphate dehydrogenase; Malic enzyme; Diacylglycerol acyltransferase; Insulin; (Rat liver) (Otto, D.A. (1082) 37)

Atherosclerosis; Benfluorex; Diabetes; Hypercholesterolemia; Hypertriglyceridemia; Insulin resistance; Obesity (Brindley, D.N. (1085) 119)

Tributyltin
Nigericin; Phloretin; Bilayer lipid membrane; Dipole potential; Ionophore (Antonenko, Y.N. (1070) 474)

Tricarboxylate carrier
Photoaffinity labeling; Mitochondrial transport (Szewczyk, A. (1073) 209)

Trichopolyn I
Hypelcin A; Phosphatidylcholine bilayer; Permeability; Conformation; Orientation (Matsuzaki, K. (1070) 419)

Trichosanthin
cDNA; Momorcharin; Ribosome inactivating protein (Ho, W.K.K. (1088) 311)

Triiodothyronine
Cytochrome *P*-450; (Rat liver) (Kleiman de Pisarev, D.L. (1074) 172)

1,25-Dihydroxyvitamin D-3 receptor; Steroid hormone; Retinoic acid; Oncogene; (Human osteosarcoma cell) (Mahonen, A. (1088) 111)

Thyroid hormone; Cardiomyocyte; Sodium channel; Slow inactivation; Patch clamp (Harris, D.R. (1095) 175)

Trimethylamine *N*-oxide
Chronic renal failure; Plasma; Urine; NMR; Betaine; Lactate; Ammonium ion (Bell, J.D. (1096) 101)

Trinitrobenzenesulfonic acid
Phosphatidylethanolamine; Phosphatidylserine; Phospholipid molecular species; Membrane lipid asymmetry (Hullin, F. (1061) 15)

Trioxodinitrate
Cytochrome *d*; Nitrite ion; Kinetics; (*E. coli*) (Bonner, F.T. (1056) 133)

Triplet formation
Charge separation; Radical pair recombination; Intersystem crossing; (*H. chlorum*) (Kleinherenbrink, F.A.M. (1057) 346)

Triplet state
Chlorophyll; Photosynthesis (Budil, D.E. (1057) 1)

Tritiated water
Cholesterol; Copper deficiency; Hypercholesterolemia; (Rat) (Yount, N.Y. (1082) 79)

Cholesterol; Development; (Guinea pig) (Yount, N.Y. (1085) 82)

Tritium effect
Water exchange; NMR; (Rat erythrocyte membrane) (Petcu, I. (1065) 99)

Triton X-100
Melittin; Membrane pore; Divalent cation; Electrorotation; Circular dichroism; Energy transfer (Alder, G.M. (1061) 111)

Triton X-100 micelle
Phase separation; Osmotic stress; Poly(ethylene glycol); Cloud point (Yamazaki, M. (1063) 175)

Triton X-114
Microsome; Glucose-6-phosphatase; Methylthioadenosine sulfoxide; Enzyme modification; Enzyme conformation; (Rat liver) (Speth, M. (1068) 217)

5′-Nucleotidase; Semen; Phosphatidylinositol phospholipase C; (Human seminal plasma) (Fini, C. (1075) 20)

Tropomyosin
cDNA; Nonmuscle cell; 3′ Untranslated region (Takenaga, K. (1087) 101)

Muscle gene; Transcription, in vitro; (*Drosophila*) (Lichter, J.B. (1088) 419)

Troponin
Calcium binding; Magnesium; ATPase, myofibrillar; (Skeletal muscle, fast) (Morimoto, S. (1073) 336)

Trout erythrocyte
K pathway; Taurine transport; Choline transport; Cell volume regulation; Ionic strength; DIDS (Motais, R. (1075) 169)

trpE
Molecular cloning; Nucleotide sequence; Anthranilate synthase I; (*Bacillus caldotenax*) (Shiratsuchi, A. (1090) 348)

Trypsin
Cytochrome b_6f complex; Spinach chloroplast (Li, L.-B. (1057) 215)

Trypsinogen; Zymogen; Enzyme kinetics; Activation (García-Moreno, M. (1080) 143)

Trypsin activation
Procolipase; Colipase; Lipase; Bile salt; Lipase binding (Larsson, A. (1083) 283)

Trypsin hydrolysis
β-Lactoglobulin; Conformation; (Bovine) (Chobert, J.-M. (1077) 31)

Trypsin inhibitor
Subtilisin inhibitor; (*D. biflorus*) (Bodhe, A.M. (1073) 11)

Trypsinogen
Trypsin; Zymogen; Enzyme kinetics; Activation (García-Moreno, M. (1080) 143)

Tryptic peptide
Hypoxanthine-guanine phosphoribosyltransferase (HPRT); Phosphoribosyltransferase; Nucleotide binding site (Keough, D.T. (1096) 95)

Tryptophan
Fluorescence; Succinimide; 3-Phosphoglycerate kinase; Protein dynamics (Varley, P.G. (1077) 19)

Inorganic pyrophosphatase; (Thermophilic bacteria) (Kaneko, S.-i. (1077) 281)

Tryptophan fluorescence
Amphipathic α-helical peptide; Lipid–peptide interaction; Liposome; α-Aminomyristic acid; Circular dichroism (Kato, T. (1063) 191)

Peptide–lipid interaction; Membrane potential; Mastoparan X; Mitochondrial presequence; Regulatory peptide (De Kroon, A.I.P.M. (1068) 111)

Tryptophan modification
Lipid–peptide interaction; Bilayer permeabilization; Melittin, formylated; Melittin, acetylated; Melittin, succinylated (Stankowski, S. (1069) 77)

Tryptophan-*N*-formylated gramicidin
Malaria; Erythrocyte membrane; Phospholipid; Growth inhibition; Potassium ion leakage; (*P. falciparum*) (Moll, G.N. (1062) 206)

Tryptophan photolysis
HDL; LDL; UVB radiation; Lipid photoperoxidation; Metal ion (Salmon, S. (1086) 1)

Tubocurarine
Butyrylcholinesterase; Inhibition; Stopped-flow; Conformation; Modeling (Stojan, J. (1079) 96)

Tubulin
Microtubule assembly; Thioredoxin; Sulfhydryl; Disulfide; (Bovine brain) (Khan, I.A. (1076) 289)

Colchicine; NMR, ^{13}C- (Osei, A.A. (1078) 339)

cDNA sequence; β-Tubulin isoform (Ahmad, S. (1090) 252)

Tubulin-binding protein
Alzheimer's disease; Posttranslational modification (Nieto, A. (1096) 197)

β-Tubulin isoform
Tubulin; cDNA sequence (Ahmad, S. (1090) 252)

Tumor
Mitochondrion; Hexokinase; Brain; ATP (Kabir, F. (1057) 147)

Tumor-associated antigen
Melanoma; Autologous antibody; Immunology; Serology (Vlock, D.R. (1080) 1)

Tumor cell line
DNA methylation; genomic DNA; 5-Azacytidine; Sodium butyrate; (Human) (Cosgrove, D.E. (1087) 80)

Tumor invasion
Collagenase inhibitor; Metalloproteinase; Zymography; (Epithelial cell) (Whitelock, J.M. (1073) 107)

Tumor marker
Glutathione transferase; Antipeptide antibody (Evangelista, M. (1074) 214)

Tumor necrosis factor
Lipoprotein lipase mRNA; Cytokine; Interleukin-1; Lipoprotein lipase activity; (Rat heart cell) (Friedman, G. (1089) 83)

Lipopolysaccharide; Untranslated region; mRNA; Gene transcription; (Macrophage) (Han, J. (1090) 22)

Interleukin-1; Interleukin-6; C-Reactive protein; Serum amyloid A; (Human); (Hepatocyte) (Yap, S.H. (1091) 405)

$(n-3)$ Fatty acid; Polyunsaturated fatty acid; Prostaglandin; Dietary fat (Hardardottir, I. (1095) 187)

Synthetic gene; Gene expression; Site-directed mutagenesis; Random mutagenesis; Mutein; (Human) (Ito, R. (1096) 245)

Antibody; Hybrid protein; (Mouse myeloma cell) (Hoogenboom, H.R. (1096) 345)

Tumor necrosis factor α
Platelet activating factor; Liver lipogenesis; Lipid metabolism; (Adrenalectomized rat) (Evans, R.D. (1086) 191)

Phosphatidylinositol; Phospholipase C; Diacylglycerol; Arachidonic acid; Prostaglandin (Rapuano, B.E. (1091) 374)

Collagenase, type IV; Gelatinase; Tissue inhibitor; Metalloproteinase; Interleukin-1; (Rabbit); (Articular chondrocyte) (Lefebvre, V. (1094) 8)

Tumor progression
$\epsilon(\gamma$-Glutamyl)lysine; Metastasis; Programmed cell death (Knight, C.R.L. (1096) 312)

Tumor promotion
Cytochrome *P*-450; Hepatocarcinogenesis; Phenobarbital; Development; (Rat) (Lechner, M.C. (1087) 157)

Tumor promotor
Cell-cell contact; Endogenous apical marker; Polarization; (LLC-PK_1) (Van Den Bosch, L. (1092) 244)

Two-dimensional crystal
ATPase, Ca^{2+}-; Membrane protein; Propionate (Misra, M. (1077) 107)

Two dimensional electrophoresis
Glucose transport; Isoelectric focusing; Isoelectric point; Membrane protein; Sialic acid; (Human erythrocyte) (Englund, A.-K. (1065) 185)

Two-fragment complex
Cytochrome *c* peroxidase; Heme–heme interaction; Enzyme mechanism; (*P. aeruginosa*) (Ellfolk, N. (1080) 68)

Two-phase region
Pulmonary surfactant; Fluorescent probe (Nag, K. (1068) 157)

Two-phase system
Vanadate; Bromoperoxidase; Alginate; Mucilage; Poly(ethylene glycol); Partition; (*Laminaria*) (Jordan, P. (1073) 98)

Affinity phase partitioning; Erythrocyte; Metal chelate (Goubran Botros, H. (1074) 69)

Type 2 diabetes mellitus
Islet amyloid polypeptide; Amylin; IAPP gene; Diabetes mellitus; Gene structure; (Rat); (Human) (Van Mansfeld, A.D.M. (1087) 235)

Type II collagen
Proteoglycan; Type X collagen; Glutathione; Chick chondrocyte; Buthionine sulfoximine; (Chick chondrocyte) (Habuchi, O. (1093) 153)

Type II pneumocyte
Xanthine dehydrogenase; Xanthine oxidase; Oxygen radical; Catalase; (Lung) (Panus, P.C. (1091) 303)

Type 1 plasminogen activator inhibitor
Vitronectin (Seiffert, D. (1078) 23)

Type X collagen
Proteoglycan; Type II collagen; Glutathione; Chick chondrocyte; Buthionine sulfoximine; (Chick chondrocyte) (Habuchi, O. (1093) 153)

Typical catalase
Catalase-peroxidase; Catalytic activity; (*K. pneumoniae*) (Hochman, A. (1077) 299)

Tyrosinase
Melanin; Estradiol; 2-Hydroxyestradiol; Estradiol-2,3-quinone; Dopa; FTIR (Jacobsohn, M.K. (1073) 1)

Hydroquinone; Melanogenesis inhibition (Palumbo, A. (1073) 85)

Melanogenesis; Peroxidase; 5,6-Dihydroxyindole; 5,6-Dihydroxyindole oligomer (D'Ischia, M. (1073) 423)

Superoxide anion; Thiol inhibitor (Wood, J.M. (1074) 378)

Melanogenesis; Melanin biosynthesis; L-Dopa; Enzyme kinetics (Rodríguez-López, J.N. (1076) 379)

Tyrosine kinase
FGF receptor; cDNA sequence; *bek*; *flg*; *bfr*; Soluble receptor; (Human) (Seno, M. (1089) 244)

Tyrosinemia
Iron transport; Heme metabolism; Fanconi syndrome; Succinylacetone; (Rat renal tubule) (Wyss, P.A. (1070) 300)

Tyrosine protein kinase
lyn gene product; Protein phosphorylation; Synthetic peptide; Cell regulation; Enzymology (Brunati, A.M. (1091) 123)

Progastrin; Phosphotyrosine; Sulfotyrosine; Tyrosine protein kinase specificity; (Rat) (Donella-Deana, A. (1095) 75)

Tyrosine protein kinase specificity
Tyrosine protein kinase; Progastrin; Phosphotyrosine; Sulfotyrosine; (Rat) (Donella-Deana, A. (1095) 75)

Tyrphostin
Erbstatin; *cdc2* kinase; *mpk* kinase; Oocyte maturation (Daya-Makin, M. (1093) 87)

U

Ubiquinone
Mitochondrion; QH_2 : cytochrome *c* oxidoreductase; Cytochrome bc_1 complex; Respiratory chain (Marres, C.A.M. (1057) 51)

Glucose transporter; Erythrocyte; Ubiquinone binding site; Amino acid sequence (Lowe, A.G. (1069) 223)

Ubiquinone binding site
Glucose transporter; Erythrocyte; Ubiquinone; Amino acid sequence (Lowe, A.G. (1069) 223)

Ubiquitin
Protein degradation; Macropain; ATP; Proteosome; Multicatalytic proteinase (DeMartino, G.N. (1073) 299)

Hexokinase activity; ATP; Glycolytic enzyme (Murakami, K. (1080) 83)

Cell cycle control; DNA repair; Proteolysis; Ribosome assembly; Stress response (Jentsch, S. (1089) 127)

Ubiquitin-mediated proteolysis; Neurodegenerative disease; Viral disease; Development (Mayer, R.J. (1089) 141)

Ubiquitin conjugate-preferential proteinase
ATP-dependent proteolysis; Cerebral cortex; (Rat) (Okada, M. (1073) 514)

Ubiquitin-conjugating enzyme mRNA
Yeast *RAD6* gene; (Human); (Mouse); (Rat) (Woffendin, C. (1090) 81)

Ubiquitin-mediated proteolysis
Ubiquitin; Neurodegenerative disease; Viral disease; Development (Mayer, R.J. (1089) 141)

U937 cell
Arachidonic acid metabolism; CoA-independent transacylase; Phospholipase A_2; Alkyl phospholipid (Winkler, J.D. (1081) 339)

Ultrafast spectroscopy
Antenna; Bacterial photosynthesis; Bacteriochlorophyll; Chlorosome; Pump-probe spectroscopy; (*C. aurantiacus*) (Lin, S. (1060) 13)

Ultraviolet-crosslinking
Photoaffinity-label; Cap binding (Thalmann, E. (1088) 301)

Ultraviolet irradiation
LDL; Lipid peroxidation; Cytotoxicity; Cytoprotection; Antioxidant; (Human lymphoblast) (Negre-Salvayre, A. (1096) 291)

Ultraviolet radiation
Pyrimidine dimer; Antibody binding; Enzyme immunoassay; Plasmid vector; Specific gene fragment; DNA blot; Bacterial mutant; DNA damage; Excision repair (Wani, A.A. (1090) 195)

Uncorking
Polymerizable phospholipids; Liposome; Phospholipase A_2 (Davies, D.E. (1084) 29)

Uncoupler
Uncoupling activity; Oxidative phosphorylation; Metabolism; Fungicide (Guo, Z.-j. (1056) 89)

Energy coupling, localized, delocalized; Proton gradient; Membrane domain; (Thylakoid) (Allnutt, F.C.T. (1059) 28)

Structure–activity relationship, quantitative; Oxidative phosphorylation; (Mitochondria) (Guo, Z.-j. (1059) 91)

Uncoupling
Cadmium ion; Phosphate transport; Phosphate/proton symporter; Oxidative phosphorylation; (Rat liver mitochondria) (Koike, H. (1060) 75)

Uncoupling activity
Uncoupler; Oxidative phosphorylation; Metabolism; Fungicide (Guo, Z.-j. (1056) 89)

Undecagoldcluster
Heavy atom; Ribosome (Boeckh, T. (1075) 50)

Unfolding
Glutamine synthetase; Thermophilic protein; Guanidine-HCl; Refolding (Wedler, F.C. (1076) 161)

Unidirectional efflux
Glucose transport; Integrated rate; Initial rate; Self exchange; (Human erythrocyte) (Gasbjerg, P.K. (1062) 83)

Unilamellar vesicle
Apolipoprotein transfer; Kinetic mechanism; Phospholipid vesicle (Ibdah, J.A. (1081) 220)

***trans*-Unsaturated fatty acid**
cis / trans Isomerization; Membrane fluidity; (Psychrophilic bacterium); (*Vibrio* sp.) (Okuyama, H. (1084) 13)

Unsaturated mycolic acid
Mycolic acid synthesis; Cell-free system; (Mycobacteria) (Lopez-Marin, L.M. (1086) 22)

Unspecific binding
Atrazine; Herbicide; Charge recombination; Photoaffinity labeling; Photosystem II concentration (Jursinic, P.A. (1059) 312)

Unstirred layer thickness
Membrane transport; Interfacial transport; Octanol/water interface; Liquid-liquid extraction (Miller, D.M. (1065) 69)

Membrane transport; Interfacial transport; Octanol/water interface; Liquid-liquid extraction; Diffusion coefficient; Octanol/water partition coefficient (Miller, D.M. (1065) 75)

3′ Untranslated region
Tropomyosin; cDNA; Nonmuscle cell (Takenaga, K. (1087) 101)

Untranslated region
Tumor necrosis factor; Lipopolysaccharide; mRNA; Gene transcription; (Macrophage) (Han, J. (1090) 22)

3′ Untranslated variation
Fish metallothionein; cDNA; Polymerase chain reaction; Sequence homology (Kille, P. (1089) 407)

Uptake
Vitamin B-12; Cobalamin; Accumulation; Coenzyme; Intracellular binding (Watanabe, F. (1075) 36)

Uracil-DNA glycosylase
DNA repair; Somatic cell hybridization (Muller, S.J. (1088) 197)

DNA repair; Bloom's syndrome (Seal, G. (1097) 299)

Urea
Erythrocyte membrane; Permeability; Water; Amide; Reflection coefficient (Toon, M.R. (1063) 179)

Urea channel
Permeability; mRNA; (Amphibian oocyte); (Frog urinary bladder epithelial cell) (Martial, S. (1090) 86)

Uric acid
Xanthine oxidase; Superoxide; Hypoxanthine; Xanthine; Inhibition (Rubbo, H. (1074) 386)

Alkaline phosphatase; Human neutrophil; Kinetic parameter (Vergnes, H.A. (1076) 152)

Uricase
Copper protein; Enzyme purification; Protein, copper; (*Chlamydomonas*) (Alamillo, J.M. (1076) 203)

Monoclonal antibody; Peroxisome; Liver-specific gene expression; (Hepatocyte); (Rat liver) (Motojima, K. (1087) 316)

Urinary bladder
Glutathione; Glutathione transferase; Detoxification; Drug resistance (Singh, S.V. (1074) 363)

Urinary carnitine
Carnitine; Acylcarnitine; Carnitine homeostasis; (Rat) (Ruff, L.J. (1073) 543)

Urinary electrolyte
Carbonic anhydrase; Renal acidification; Methazolamide; (Mouse) (Brechue, W.F. (1066) 201)

Urine
Epidermal growth factor; Precursor; Aprotinin; (Rat kidney) (Jørgensen, P.E. (1074) 284)

Decay-accelerating factor; Complement (Nakano, Y. (1074) 326)

Chronic renal failure; Plasma; NMR; Betaine; Trimethylamine *N*-oxide; Lactate; Ammonium ion (Bell, J.D. (1096) 101)

Urokinase
Plasminogen activator (Harvey, S.R. (1078) 360)

Urolithiasis
Pyridoxine deficiency; Intestinal brush-border membrane; Oxalate binding; (Kinetic analysis) (Koul, H.K. (1064) 184)

U5 snRNP
U5-specific protein; Protein–RNA interaction; Splicing (Bach, M. (1088) 139)

U5-specific protein
U5 snRNP; Protein–RNA interaction; Splicing (Bach, M. (1088) 139)

Uterus
Fatty acyl-CoA; Estradiol; Progesterone; Glucose-6-phosphate dehydrogenase (Young, A.J. (1092) 211)

UVA light
Endogenous photosensitizer; Peroxidation; Membrane; Fibroblast (Morlière, P. (1084) 261)

UVB radiation
HDL; LDL; Tryptophan photolysis; Lipid photoperoxidation; Metal ion (Salmon, S. (1086) 1)

V

Vaccine
Iscom; Quil A; Saponin (Kersten, G.F.A. (1062) 165)

Vacuolar ATPase
ATPase; Pyrophosphatase; Immunoreactivity; Cold inactivation; Proton transport; (*A. acetabulum*) (Ikeda, M. (1070) 77)

Vacuolar membrane
Cation channel; Charybdotoxin; Tonoplast; Patch-clamp technique; (*Chenopodium rubrum*) (Weiser, T. (1066) 109)

Vacuole
Malate carrier; Reconstitution; Transport; (*Hordeum vulgare*) (Martinoia, E. (1062) 271)

Vanadate
Sarcoplasmic reticulum; NMR, ^{35}Cl-; Anion binding; Pyridoxalphosphate-6-azophenyl-2′-sulfonic acid; Pyridoxalphosphate-6-azophenyl-4′-nitro-2′-sulfonic acid (Vetter, I.R. (1067) 9)

ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; ATPase, H^+/K^+-; Photocleavage; Sarcoplasmic reticulum (Molnar, E. (1068) 17)

Bromoperoxidase; Alginate; Mucilage; Poly(ethylene glycol); Partition; Two-phase system; (*Laminaria*) (Jordan, P. (1073) 98)

Diabetes; Insulin; Malic enzyme; Glucose-6-phosphate dehydrogenase (Pugazhenthi, S. (1083) 310)

Vanadate inhibition
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Enzyme intermediate; (Frog muscle) (Vashchenko, V.I. (1079) 8)

Vanadium bromoperoxidase
Bromoperoxidase; Vanadium prosthetic group; Steady state kinetics; Dioxygen formation; (*M. pyrifera*); (*F. distichus*) (Soedjak, H.S. (1079) 1)

Vanadium prosthetic group
Bromoperoxidase; Vanadium bromoperoxidase; Steady state kinetics; Dioxygen formation; (*M. pyrifera*); (*F. distichus*) (Soedjak, H.S. (1079) 1)

Van der Waals radius
Polyol; Partial molar volume; Group additivity; Hydrophilic channel; Single file transport (Kiyosawa, K. (1064) 251)

Variable fluorescence at 758 nm
Photosystem I; P700 redox state; Cyanobacterium (Shubin, V.V. (1060) 28)

Variant
Glycophorin; cDNA sequence; Sialoglycoprotein (Barton, P. (1090) 265)

Vascular endothelial cell
Cytotoxicity; Bile salt; (Human) (Garner, C.M. (1091) 41)

Vascular permeability reaction
Mite proteinase; Proteinase inhibitor; (House dust mite) (Maruo, K. (1074) 62)

Vascular tone
ATP diphosphohydrolase; Smooth muscle cell; Endothelial cell; Platelet aggregation; (Bovine aorta) (Côté, Y.P. (1078) 187)

Vasoactive intestinal contractor (VIC)
cDNA sequence; Precursor; Processing; Endothelin; (Mouse) (Saida, K. (1089) 404)

Vasoactive intestinal peptide analog
Adenylate cyclase; Pituitary; Helodermin; Peptide receptor; PACAP analog; (Human SUP-T1 lymphoblast) (Gourlet, P. (1066) 245)

Vasopressin
Epidermal growth factor; Protein kinase C; Fatty acid oxidation; (Rat hepatocyte) (Conricode, K.M. (1095) 161)

Venom
Platelet aggregation; Fibrinogenase; Antiplatelet effect; (Snake); (*Naja nigricollis*) (Kini, R.M. (1095) 117)

Verapamil
P-glycoprotein; L-Leucine transport; ATP; Quinidine; Osmolarity (Horio, M. (1061) 106)

Phospholipid biosynthesis; Cytochalasin; Colchicine; Calcium; EGTA; Digitonin-permeabilization; Rat glioma cell (George, T.P. (1084) 185)

Verapamil hypersensitivity
Cyclosporin A; P-glycoprotein; Multidrug resistance (Stow, M.W. (1092) 7)

Veratryl alcohol oxidase
Lignin degradation; Basidiomycete; (*P. ostreatus*) (Sannia, G. (1073) 114)

Very-long-chain fatty acid
Acyl-CoA; Acyl-CoA elongase; (*L. annua*) (Fehling, E. (1082) 239)

($n-3$), ($n-6$) Polyunsaturated fatty acid; Tetracosapentaenoic acid; Tetracosahexaenoic acid; (Coelenterated) (Vysotskii, M.V. (1083) 161)

Vesicle
Sodium bis(2-ethylhexyl) phosphate; Binary system; Ternary system; Swollen micelle; Transmission electron microscopy; DSC; Interfacial tension (Nakache, E. (1074) 413)

Fibronectin; Nucleation time; Cholesterol gallstone (Chijiiwa, K. (1086) 44)

Lipid emulsion; Intralipid ™; Parenteral nutrition (Rotenberg, M. (1086) 265)

Vesicle formation
Membrane skeleton; pH, intracellular; Temperature; Electron microscopy; (Humanerythrocyte) (Lelkes, G. (1065) 135)

Vesicle fusion
Basic peptide; Membrane binding; Sulfatide specificity (Stankowski, S. (1068) 61)

Vesicle to micelle transition
Melittin; [Ala-14]Melittin; Dimyristoylphosphatidylcholine; NMR, ^{2}H-; Freeze-fracture; Electron microscopy (Dempsey, C.E. (1061) 175)

Vesicular transport
Monensin; Lipid sorting; Membrane biogenesis; Fatty acyl chain length (Bertho, P. (1070) 127)

Endoplasmic reticulum; GTP-binding protein; *SAR1*; *(Saccharomyces cerevisiae)* (Nishikawa, S.-i. (1093) 135)

V-gene
Direct repeat; Heteroduplex; Complementary palindrome; Somatic mutation; Clonal selection (Rogozin, I.B. (1089) 175)

VHDL
Cholesterol; Reverse cholesterol transport; (Rabbit) (Nanjee, M.N. (1086) 241)

Violaxanthin
Multibilayer; Zeaxanthin; Linear dichroism; X-ray diffractometry (Gruszecki, W.I. (1069) 21)

Viral disease
Ubiquitin; Ubiquitin-mediated proteolysis; Neurodegenerative disease; Development (Mayer, R.J. (1089) 141)

Viral hemorrhagic scepticaemia virus
G protein; Rhabdovirus; Egtved virus; (Fish) (Thiry, M. (1090) 345)

Viral RNA
Encephalomyocarditis; RNA; Ribosome binding; Picornavirus; Initiation factor (Scheper, G.C. (1089) 220)

Virus
Membrane fusion; LUV; Fusion peptide; Fusion protein; NMR, ^{31}P-; (Sendai virus); (Measles virus) (Yeagle, P.L. (1065) 49)

Plant virus; TMV; CCMV; Coat protein; Lipid–protein interaction (Spruijt, R.B. (1065) 217)

Virus neutralizing domain
HIV type 1 (Murakami, T. (1079) 279)

Visibility
NMR; ATP; (Liver) (Ikai, I. (1074) 289)

Vitamin B-12
Cobalamin; Uptake; Accumulation; Coenzyme; Intracellular binding (Watanabe, F. (1075) 36)

Vitamin D
Steroid hormone receptor; Vitamin D metabolite; Intestinal nuclei; Calcium; (Pig intestine) (Brown, T.A. (1073) 324)

24-Hydroxylase; Kinetics; Periodate assay (Burgos-Trinidad, M. (1078) 226)

24-*epi*-1α,25-Dihydroxyvitamin D-2; 1α,25-Dihydroxyvitamin D-7; Calcium metabolism; Leukemia differentiation (Sato, F. (1091) 188)

Sulfhydryl; Intestine; Brush-border membrane; Steroidal hormone; (Chicken) (Tolosa de Talamoni, N. (1094) 224)

Vitamin D metabolite
Vitamin D; Steroid hormone receptor; Intestinal nuclei; Calcium; (Pig intestine) (Brown, T.A. (1073) 324)

Vitamin E
Ion channel; Gramicidin A; Lipid membrane; Radiation inactivation (Barth, C. (1066) 54)

Macrophage; Prostaglandin E_2; Superoxide anion; Intracellular calcium ion (Sakamoto, W. (1074) 251)

5-Lipoxygenase; 15-Lipoxygenase; Hydroperoxyoctadecadienoic acid; Peroxidase; Xenobiotic oxidation (Cucurou, C. (1081) 99)

β-Carotene; 15-Lipoxygenase; Prostaglandin synthetase (Lomnitski, L. (1082) 101)

DNA binding; Arachidonic acid; Lipid peroxidation; Arachidonic acid metabolism (Zhang, J.-R. (1085) 159)

Vitamin E analog
Calcium ionophore; Muscle damage (Phoenix, J. (1097) 212)

Vitamin K
γ-Carboxyglutamic acid; γ-Glutamyl carboxylase; Posttranslational modification (Soute, B.A.M. (1073) 434)

γ-Carboxyglutamic acid; Bone Gla protein; Matrix Gla protein (Engelke, J.A. (1078) 31)

Vitreous humor
Rabbit lens; Protein synthesis; Protein synthesis inhibitor; Cell-free translation (Banerjee, A. (1076) 330)

Phosphorylation; Iris-ciliary complex; Tissue culture; Growth inhibition (Banerjee, A. (1077) 56)

Vitronectin
Type 1 plasminogen activator inhibitor (Seiffert, D. (1078) 23)

VLDL
Arachidonate; Essential fatty acid; Phosphatidylcholine; Sex related difference (Graham, A. (1081) 151)

Hyperthyroidism; VLDL apoprotein; Apolipoprotein E (Wilcox, H.G. (1081) 246)

VLDL remnant; Remnant receptor; LDL receptor; Lipoprotein lipase; (HepG2 cell line) (Mulder, M. (1081) 308)

Apolipoprotein E; LDL receptor; LDL receptor-related protein (Mokuno, H. (1082) 63)

Rhesus monkey; LDL; Apo B; Kinetics; Saturated fat (Khosla, P. (1083) 46)

Apolipoprotein E; Apo E isoform; Apolipoprotein A-II; HDL; Lipoprotein metabolism (Borghini, I. (1083) 139)

VLDL apoprotein
Hyperthyroidism; VLDL; Apolipoprotein E (Wilcox, H.G. (1081) 246)

VLDL remnant
Remnant receptor; LDL receptor; Lipoprotein lipase; VLDL; (HepG2 cell line) (Mulder, M. (1081) 308)

Volatile anesthetic
Norepinephrine release; Protein kinase C; Fura-2; Calcium concentration, cytoplasmatic (Tas, P.W.L. (1091) 401)

Voltage clamp
Oocyte; Glucose transport; Sodium ion/glucose cotransporter; Expression; Flux; (*Xenopus laevis*) (Weber, W.-M. (1063) 73)

Oocyte; Glutamate cotransport; Sodium ion dependence; (*Xenopus*) (Steffgen, J. (1066) 14)

Voltage dependence
Cultured renal cell line (A6); Specific membrane conductance; Membrane conductance; Microelectrode; Circuit analysis (Granitzer, M. (1069) 87)

Chromaffin cell; Fura-2; Lead ion influx; Calcium ion channel; Dihydropyridine sensitivity (Tomsig, J.L. (1069) 197)

Cation transport pathway; Sodium pump; ATPase, Na^+/K^+- (Halperin, J.A. (1070) 497)

Voltage-dependent calcium channel
Calcium influx; Catecholamine secretion; Osmotic strength; Nicotinic receptor; (Chromaffin-cell) (Heldman, E. (1091) 417)

Voltage-dependent gating
Cation channel; Erythrocyte; Patch clamp (Christophersen, P. (1065) 103)

Voltage-operated calcium ion channel
Calcium homeostasis; Membrane potential; (Cultured human muscle cell) (Jacobs, A.E.M. (1096) 14)

Voltage-sensitive dye
Optical recording; Optical fiber; Action potential; Membrane fluorescence; Frog heart (Bowmaster, T.A. (1091) 9)

Voltametry
Photoactivable phospholipid; Planar bilayer membrane; Cyclic voltametry; Photopolymerization; Ion channel (Borle, F. (1066) 144)

Volume regulation
Stretch activation; Potassium ion channel (Bear, C.E. (1069) 267)

Beta-cell membrane; Cotransport; Furosemide; Rubidium ion efflux; (Mouse) (Engström, K.G. (1091) 145)

Von Willebrand factor
Platelet-type von Willebrand disease; Platelet aggregation; Peptide segment; GPIbα protein; Conformational energy; Amphipathic structure (Pincus, M.R. (1097) 133)

W

Water
Erythrocyte membrane; Permeability; Amide; Urea; Reflection coefficient (Toon, M.R. (1063) 179)

Water activity
Organic media; Salt hydrate; Peptide synthesis (Kuhl, P. (1078) 326)

Water diffusion
Red blood cell; Sulfhydryl reagent; NMR; (Human) (Benga, G. (1061) 309)

Water permeation; Antipyrine; ADH; cyclic AMP; Benzyl alcohol; (MDCK cell) (Giocondi, M.-C. (1064) 315)

Water exchange
Tritium effect; NMR; (Rat erythrocyte membrane) (Petcu, I. (1065) 99)

Water oxidation
Photosynthesis; Proton; Neutral red; Thylakoid stacking (Jahns, P. (1057) 313)

Water permeation
Water diffusion; Antipyrine; ADH; cyclic AMP; Benzyl alcohol; (MDCK cell) (Giocondi, M.-C. (1064) 315)

Water splitting
Oxygen evolution; Photosystem II; Chlorophyll fluorescence; (Inside-out thylakoid) (Delrieu, M.J. (1057) 78)

Weak acid
pH, intracellular; Intracellular free calcium; Ion specific microelectrode; Weak base; (*Xenopus* egg) (Grandin, N. (1091) 242)

Weak base
pH, intracellular; Intracellular free calcium; Ion specific microelectrode; Weak acid; (*Xenopus* egg) (Grandin, N. (1091) 242)

Western blotting
Cytochrome *P*-450; Hypertension; (Rat hepatic microsome); (Rat renal microsome) (Imaoka, S. (1074) 209)

Cytochrome *P*-450; Aging; (Rat hepatic microsome) (Imaoka, S. (1097) 187)

Wheat embryo
S-Adenosylmethionine synthetase; Stored mRNA; Enzyme synthesis, de novo; Enzyme induction by methionine (Mathur, M. (1078) 161)

Wheat germ agglutinin
Sperm; Antigen; Membrane antigen; Lectin; Concanavalin A; Agglutinin; (Goat) (Sarkar, M. (1070) 198)

ATPase, H^+/K^+-; Heterodimer; Cross-link; Glycoprotein; $C_{12}E_8$; Glutaraldehyde; Soluble enzyme; FITC (Hall, K. (1077) 173)

WHHL
Chylomicron; Lipoprotein remnant; Triacylglycerol metabolism; Cholesteryl ester metabolism; Plasma cholesterol; LDL receptor; Lipoprotein lipase; (Rabbit) (Mamo, J.C.L. (1081) 241)

White adipose
Obesity; Gold-thioglucose; Insulin sensitivity; Brown adipose tissue; Lipogenesis; Liver (Blair, S.C. (1085) 385)

Whole-cell recording
Ion distribution; Dialyzed cell; Sodium/potassium pump current; Sodium–calcium exchange current (Bielen, F.V. (1065) 269)

Winkler titration
Dioxygen solubility; Phospholipid bilayer; DMPC; Coulometric titration (Smotkin, E.S. (1061) 33)

Wound healing
Platelet activating factor; Catfish secretion (Summers, B. (1091) 329)

X

XANES spectroscopy
Hemoglobin; Ferrous nitrosylhemoglobin; (*Camelus dromedarius*); (Dromedary) (Congiu Castellano, A. (1080) 119)

Xanthine
Xanthine oxidase; Superoxide; Hypoxanthine; Uric acid; Inhibition (Rubbo, H. (1074) 386)

Xanthine dehydrogenase
Molecular evolution; *Rosy* locus; Transcription; Genetic transformation; (*Calliphora vicina*); (*Drosophila melanogaster*); (*Dipteran*) (Tiveron, M.-C. (1088) 390)

Xanthine oxidase; Oxygen radical; Type II pneumocyte; Catalase; (Lung) (Panus, P.C. (1091) 303)

Xanthine oxidase
Superoxide; Hypoxanthine; Xanthine; Uric acid; Inhibition (Rubbo, H. (1074) 386)

Xanthine dehydrogenase; Oxygen radical; Type II pneumocyte; Catalase; (Lung) (Panus, P.C. (1091) 303)

Xanthophyll cycle
Zeaxanthin; Membrane fluidity; Photosynthesis (Gruszecki, W.I. (1060) 310)

Xenobiotic metabolism
PAF; Alveolar type II cell; Cytochrome *P*-450; Pneumocyte (Rabovsky, J. (1095) 223)

Xenobiotic oxidation
5-Lipoxygenase; 15-Lipoxygenase; Vitamin E; Hydroperoxyoctadecadienoic acid; Peroxidase (Cucurou, C. (1081) 99)

Xenograft
Medulloblastoma; Glycosyltransferase; Ganglioside; Sphingolipid (Gottfries, J. (1081) 253)

X-inactivation
Steroid sulfatase; X-linked ichthyosis; Enzyme polymorphism (Shankaran, R. (1078) 251)

X-linked adrenoleukodystrophy
Peroxisome; Fatty acid oxidation; Immunoblotting; Cerebrohepatorenal syndrome; (Fibroblast) (Reubsaet, F.A.G. (1083) 305)

X-linked ichthyosis
Steroid sulfatase; X-inactivation; Enzyme polymorphism (Shankaran, R. (1078) 251)

X-ray analysis
5′-*O*-[*N*-(L-Alanyl)sulfamoyl]adenosine; Alanyl-AMP analog; Molecular conformation; Crystal structure (Ueda, H. (1080) 126)

X-ray crystallography
α-Amylase; Limited proteolysis; Antibody; (Porcine pancreas) (Desseaux, V. (1080) 237)

X-ray diffraction
Ether phospholipid; Lipid polymorphism; Microscopy; Synchrotron radiation; NMR, ^{31}P- (Lohner, K. (1061) 132)

Discrete water layer; Membrane (Murthy, N.S. (1062) 172)

Sphingomyelin; Lipid bilayer; Thermodynamics; DSC (Maulik, P.R. (1062) 211)

Phosphatidylserine; Cholesterol; DSC (Wachtel, E.J. (1066) 63)

Phospholipid; Phosphatidylethanolamine; Lipid phase behavior (Sanderson, P.W. (1067) 43)

Dipalmitoylphosphatidic acid; Poly(L-lysine); Electron density profile; Hydrocarbon chain packing (Takahashi, H. (1069) 229)

Collagen; Aging (James, V.J. (1078) 19)

Adenylic acid; Alkaline earth; Conformational change; FTIR; NMR, ^{1}H- (Tajmir-Riahi, H.-A. (1087) 49)

X-ray diffractometry
Multibilayer; Zeaxanthin; Violaxanthin; Linear dichroism (Gruszecki, W.I. (1069) 21)

X-ray scattering
Rhodopsin; Acid metarhodopsin; Photoconversion; Conformational change; Cephalopod; Chromatofocusing (Hiraki, K. (1077) 355)

Y

Yeast
Plasma membrane; ATPase; Glycoprotein; Membrane domain; Immunogold electron microscopy (Serrano, R. (1062) 157)

Phospholipid transfer protein; Transfer protein; Plasmalogen; Pyrene-labeled glycerophospholipid; Fluorescence (Szolderits, G. (1063) 197)

Anionic phospholipid; Phospholipid; Membrane asymmetry; Surface potential (Cerbón, J. (1067) 139)

Ribosomal protein; Phosphorylation (Campos, F. (1087) 142)

Cell-type-specific transcription; Mating type; Pheromone response; (*Saccharomyces cerevisiae*) (Dolan, J.W. (1088) 155)

Glutathione *S*-transferase; Nucleotide sequence; cDNA; (*Issatchenkia orientalis*) (Tamaki, H. (1089) 276)

Yeast cell
Luminol chemiluminescence; Menadione; Hydrogen peroxide; Oxygen, active species; NADH : menadione oxidoreductase (Yamashoji, S. (1059) 99)

Yeast cytosol
Phosphatidylserine transfer protein; Phospholipid transport; Phosphatidylethanolamine; Fluorescent phospholipid; (*S. cerevisiae*) (Lafer, G. (1069) 139)

Yeast *RAD6* gene
Ubiquitin-conjugating enzyme mRNA; (Human); (Mouse); (Rat) (Woffendin, C. (1090) 81)

Z

Zeaxanthin
Photosynthesis; Carotenoid; Chlorophyll fluorescence; Non-photochemical quenching; pH gradient (Noctor, G. (1057) 320)

Membrane fluidity; Xanthophyll cycle; Photosynthesis (Gruszecki, W.I. (1060) 310)

Multibilayer; Violaxanthin; Linear dichroism; X-ray diffractometry (Gruszecki, W.I. (1069) 21)

Zein
Alcohol dehydrogenase; Chimeric protein; Protein translocation; Signal sequence; Signal anchor (Shatters, Jr., R.G. (1068) 179)

Zellweger syndrome
Peroxisome; Oxidase; Dicarboxylic amino acid; Excitotoxicity; (Human liver) (Van Veldhoven, P.P. (1073) 203)

Peroxisomal biogenesis; Catalase; Peroxisomal β-oxidation (Wiemer, E.A.C. (1097) 232)

Zinc
Metallothionein; mRNA half-life; Cadmium; Spermatogenic cell; (Chicken); (Mouse) (De, S.K. (1090) 223)

Zinc binding
Brush-border membrane; Zinc ion binding site; Ionophore A23187; Cadmium; (Pig small intestine) (Tacnet, F. (1063) 51)

Zinc ion
Placental transport; (Human trophoblast cell) (Mas, A. (1092) 35)

Zinc ion binding site
Brush-border membrane; Zinc binding; Ionophore A23187; Cadmium; (Pig small intestine) (Tacnet, F. (1063) 51)

Zinc phthalocyanine disulfonate
Calcium, intracellular; Membrane potential; Cell injury; Photodynamic action; Photosensitization (Specht, K.G. (1070) 60)

Zymogen
Microsomal chitinase; Enzyme kinetics; Antifungal agent; (*C. albicans*) (Dickinson, K. (1073) 177)

Trypsinogen; Trypsin; Enzyme kinetics; Activation (García-Moreno, M. (1080) 143)

Zymography
Collagenase inhibitor; Tumor invasion; Metalloproteinase; (Epithelial cell) (Whitelock, J.M. (1073) 107)

Biochimica et Biophysica Acta

Reviews on Bioenergetics, Editorial Board

G.T. Babcock (East Lansing, MI)
J. Barber (London)
P. Borst (Amsterdam)
F. Bygrave (Canberra)
B. Chance (Philadelphia, PA)
W.A. Cramer (West Lafayette, IN)
K. van Dam (Amsterdam)
P.L. Dutton (Philadelphia, PA)
L. Ernster (Stockholm)
S. Ferguson-Miller (East Lansing)
A.R. Fersht (Cambridge)
R.G. Gennis (Urbana, IL)
G. Hauska (Regensburg)
W. Junga (Osnabrück)
H.R. Kabak (Los Angeles, CA)
A.A. Konstantinov (Moscow)
H. Michel (Frankfurt am Main)
P.D. Mitchell (Bodmin)
P. Nicholls (St. Catharines, GA)
R.C. Prince (Annandale, NJ)
G.K. Radda (Oxford)
P. Rich (Bodmin)
A.W. Rutherford (Gif-sur-Yvette)
G. Schatz (Basel)
V.P. Skulachev (Moscow)
E.C. Slater (Southampton)
C.L. Slayman (New Haven, CT)
J.W. Stucki (Bern)
J.P. Thornber (Los Angeles, CA)
J. Vanderkooi (Philadelphia, PA)
M. Wikström (Helsinki)
R.J.P. Williams (Oxford)
C.A. Wraight (Urbana, IL)

Reviews on Biomembranes, Editorial Board

Z.I. Cabantchik (Jerusalem)
E. Carafoli (Zürich)
G. Cevc (München)
H.N. Christensen (Ann Arbor, MI)
F.L. Crane (West Lafayette, IN)
K. van Dam (Amsterdam)
E.A. Dawidowicz (Boston, MA)
L.L.M. van Deenen (Utrecht)
B. Deuticke (Aachen)
L. Ernster (Stockholm)
J. de Gier (Utrecht)
W.B. Gratzer (London)
W. Hasselbach (Heidelberg)
H. Hauser (Zürich)
J.N. Hawthorne (Nottingham)
E. Heinz (Dortmund)
E.J. Helmreich (Wurzburg)
S.B. Hladky (Cambridge)
R.C. Hughes (London)
M.L. Jennings (Galveston, TX)
M. Kates (Ottawa)
E.P. Kennedy (Boston, MA)
G.R. Kepner (Minneapolis, MN)
R. Kinne (Dortmund)
A. Kleinzeller (Philadelphia, PA)
A. Kotyk (Prague)
B. de Kruijff (Utrecht)
A.G. Lee (Southampton)
W.J. Lennarz (Houston, TX)
D. Marsh (Göttingen)
A.N. Martonosi (Syracuse, NY)
H.M. McConnell (Stanford, CA)
D.J. Morré (West Lafayette, IN)
Y. Nozawa (Gifu)
D. Papahadjopoulos (San Francisco, CA)
D.S. Parsons (Oxford)
P.G.W. Plagemann (Minneapolis, MN)
J.J.H.H.M. de Pont (Nijmegen)
E. Racker (Ithaca, NY)
G.K. Radda (Oxford)
A.M. Scanu (Chicago, IL)
G. Schatz (Basel)
G.L. Scherphof (Groningen)
J. Seelig (Basel)
N. Sharon (Rehovot)
G.G. Shipley (Boston, MA)
J.R. Silvius (Montreal)
V.P. Skulachev (Moscow)
E.C. Slater (Southampton)
W.D. Stein (Jerusalem)
W. Stoeckenius (San Francisco, CA)
J.M. Tager (Bari)
T.E. Thompson (Charlottesville, VA)
D.E. Vance (Edmonton)
A. Watts (Oxford)
R.F.A. Zwaal (Maastricht)

Reviews on Cancer, Editorial Board

S.A. Aaronson (Bethesda, MD)
A. Berns (Amsterdam)
J.L. Bos (Leiden)
M.M. Burger (Basel)
A.J. van der Eb (Leiden)
W. Eckhart (San Diego, CA)
R.N. Eisenman (Seattle, WA)
J. Feunteun (Villejuif)
J.G. Foulkes (Manhasset, NY)
T. Graf (Heidelberg)
T. Hunter (San Diego, CA)
N. Jones (London)
F. McCormick (Emeryville, CA)
R. Müller (Heidelberg)
R. Nusse (Amsterdam)
B. Ponder (Cambridge)
C. Prives (New York)
E.S. Stanbridge (Irvine, CA)
K. Struhl (Boston, MA)
I.M. Verma (San Diego, CA)
C. Weissmann (Zürich)

Cumulative Contents

BBA Review Sections, 1991

Reviews on Biomembranes, Vol. 1071

Editorial *vi*

Information for Contributors *ix*

Detection and functions of mammalian lectins-with emphasis on membrane lectins
H.-J. Gabius (Germany) 1

Functional reconstitution of the sodium pump. Kinetics of exchange reactions performed by reconstituted Na/K-ATPase
F. Cornelius (Denmark) 19

Potassium selective ion channels in insulin-secreting cells: physiology, pharmacology and their role in stimulus-secretion coupling
M.J. Dunne and O.H. Petersen (U.K.) 67

Nuclear protein localization
J. Garcia-Bustos, J. Heitman and M.N. Hall (Switzerland) 83

The effect of ionizing radiation on lipid membranes
G. Stark (Germany) 103

Membrane insertion and lateral mobility of synthetic amphiphilic signal peptides in lipid model membranes
L.K. Tamm (U.S.A.) 123

Cellular functions of metallo-endoproteinases
W.J. Lennarz and W.J. Strittmatter (U.S.A.) 149

Nonparallel transport and mechanisms of secretion
S. Rothman, C. Liebow and J. Grendell (U.S.A.) 159

Control of exocytosis in adrenal chromaffin cells
R.D. Burgoyne (U.K.) 174

Shedding of vesicular material from the cell surface of eukaryotic cells: different cellular phenomena
A.R. Beaudoin and G. Grondin (Canada) 203

Chloroplast protein topogenesis: import, sorting and assembly
A.D. De Boer and P.J. Weisbeek (The Netherlands) 221

Structure-function relationships in intestinal brush border membranes
P. Proulx (Canada) 255

Shapes and shape changes *in vitro* in normal red blood cells
A. Elgsaeter and A. Mikkelsen (Norway) 273

Contact sites between mitochondrial envelope membranes. Structure and function in energy- and protein-transfer
D. Brdiczka (Germany) 291

Transbilayer movement of phospholipids in red cell and platelet membranes
A.J. Schroit and R.F.A. Zwaal (U.S.A., The Netherlands) 313

Cell volume in the regulation of hepatic function: a mechanism for metabolic control
D. Häussinger and F. Lang (Germany, Austria) 331

The transport systems of mammalian lysosomes
R.L. Pisoni and J.G. Thoene (U.S.A.) 351

Mechanisms of acid extrusion in yeast
K. Sigler and M. Höfer (Czechoslovakia, Germany) 375

Structure and ligand binding in membrane-bound proteins and immunoglobulins
J.L. Banks (U.S.A.) 393

Activation of ion transport pathways by changes in cell volume
B. Sarkadi and J.C. Parker (Hungary, U.S.A.) 407

Techniques and concepts in exocytosis: focus on mast cells
M. Lindau and B.D. Gomperts (Germany, U.K.) 429

Reconstitution of receptor/GTP-binding protein interactions
R.A. Cerione (U.S.A.) 473

Cumulative Contents, Vol. 1071 503

Author Index 505

Reviews on Cancer, Vol. 1072

Editorial *vii*

Information for Contributors *ix*

Defining the molecular mechanisms of human cell immortalization
J.W. Shay, W.E. Wright and H. Werbin (U.S.A.) 1

Transgenic models for haemopoietic malignancies
J.M. Adams and S. Cory (Australia) 9

The molecular biology of breast cancer
M.J. Van de Vijver and R. Nusse (The Netherlands) 33
Genome imprinting and carcinogenesis
C. Sapienza (Canada) 51
The inducible transcription activator NF-κB: regulation by distinct protein subunits
P.A. Baeuerle (F.R.G.) 63
Regulation of cell movement: the motogenic cytokines
M. Stoker and E. Gherardi (U.K.) 81
c-Myc oncoprotein function
C.V. Dang (U.S.A.) 103
The *trk* family of tyrosine protein kinase receptors
M. Barbacid, F. Lamballe, D. Pulido and R. Klein (U.S.A.) 115
The role of Jun, Fos and the AP-1 complex in cell-proliferation and transformation
P. Angel and M. Karin (F.R.G., U.S.A.) 129
Molecular mechanisms in lung pathogenesis
D.L. Buchhagen (U.S.A.) 159
Antigen receptor genes in hemopoietic malignancies
M.D. Reis, H. Griesser and T.W. Mak (Canada, F.R.G.) 177
Diagnostic utility of oncogenes and their products in human cancer
S.J. McKenzie (U.S.A.) 193
Ras p21: effects and regulation
H. Haubruck and F. McCormick (U.S.A.) 215

Cumulative Contents, Vol. 1072 231

Author Index 233

Information for Contributors to Biochimica et Biophysica Acta

Biochimica et Biophysica Acta publishes papers reporting advances in our knowledge or understanding of any field of biochemistry or biophysics. Descriptions of new methods valuable for biochemists or biophysicists are also acceptable if their application is made obvious or a new principle is introduced. Negative results will be accepted only when they can be considered to advance our knowledge significantly. Papers providing only confirmatory evidence or extending observations firmly established in one species to another will not normally be accepted.

Typescripts intended for publication in BBA should be sent to one of the addresses given on the inside cover of each issue of BBA, accompanied by a letter of submission. **In their letter, the authors may suggest suitable reviewers.** Submission of a manuscript implies that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review or academic thesis), that it is not under consideration for publication elsewhere, that its publication has been approved by all the authors and tacitly or explicitly by the responsible authorities in the laboratories where the work was carried out and that, if accepted, it will not be published elsewhere in the same form, in either the same or another language, without the consent of the Editors and Publisher. Reference should be made to previously published abstracts, etc., at the end of the Introduction.

Three types of paper are published: Regular Papers, Rapid Reports and Reviews. A Regular Paper is the usual medium for publication, Rapid Reports being restricted to papers describing short, complete studies. Rapid Reports should not exceed four printed pages, including figures and tables, and should be written in a continuous style. A Rapid Report, although brief, should be a complete and final publication, and figures and tables should not be included in a later paper. Reviews may be published in all sections of the journal. They are normally invited, but authors wishing to write a Review may contact a Managing Editor: please see the full version of BBA's Information for Contributors.

The section Gene Structure and Expression includes short sequence-papers, i.e., short papers reporting nucleotide sequences, in its Rapid Reports. Details for submission of such sequence-papers are given separately in each issue of that section.

Papers should be written in English (either British or American spelling is accepted).

Responsibility for the accuracy of the material in the manuscript lies entirely with the authors.

Preparation of papers

Authors and their typists should consult a recent issue of the journal in order to make themselves familiar with the conventions and layout of articles, especially title pages and reference lists. In particular, typists should ensure that the beginning of each new paragraph is clearly indicated, preferably by indentation.

Four copies are required of all material submitted (including the submission letter, if it contains information of relevance to the editors). Legible carbon copies or photocopies are adequate for the second and subsequent copies, except for photographs of electrophoretic patterns, electron micrographs, etc., where high-quality prints must be provided in quadruplicate.

The entire text, including figure and table legends and reference list, should be typed with double or triple spacing on pages of uniform size, on one side of the paper, with a 5 cm margin. All pages should be numbered consecutively.

The submission of electronic manuscripts is encouraged. The preferred storage medium is a $5\frac{1}{4}$ or $3\frac{1}{2}$ inch disk. WordPerfect with MS-DOS is the preferred combination, although many other systems can be handled. It is essential that the submitted disk be the final, corrected version of the article and match the manuscript exactly. Absolute consistency in all keying operations and strict adherence to journal style are vital. The disk should be accompanied by four copies of the hard-copy printout as described above for 'conventional' submission. Tables and figures are handled conventionally. The Publisher will be pleased to provide further details.

Title

A paper should be headed by a concise, informative title. Authors are reminded that titles are widely used in information-retrieval systems. The title should be followed by the names of the authors (with first or middle names in full) and by the name(s) and address(es) of the laboratory(ies) where the work was carried out. If the work has been done in more than one laboratory, the one in which each author has worked during the study should be indicated. The name and full postal address of one 'corresponding' author is to be provided (for publication), and also telephone, fax and telex numbers.

Summary

A paper should begin with a summary of 100–200 words for a Regular Paper and approx. 50 words for a Rapid Report.

Presentation of data

Tables and their legends should be typed with double or triple spacing.

Legends to figures should not be typed or written on the illustrations but should be typewritten, with double or triple spacing, on separate sheets of paper. The legends should consist of a preliminary sentence constituting a title, followed by a brief description of the way the particular experiment was carried out, and any other necessary material describing the symbols or lines on the figure.

In preparing figures, bear in mind the dimensions of the page and column (typesetting areas 17.7 and 8.4×23.5 cm, respectively). Symbols and letters should be at least 1.5 mm high after reduction. Avoid handwriting and typing (except for camera-ready sequences). Electron micrographs must carry a bar denoting unit length. Photographs should be unmounted and lettering on them is best introduced on an overlay (strip/press-on lettering, e.g., Letraset, may be used, but is prone to damage). Colour figures should be discussed with a Managing Editor and the Publisher.

References and citations

References are cited in the text by consecutive number, thus [1]. If authors' names are mentioned, this should be done sparingly; for more than two authors 'et al.' or 'and co-workers' is used. Data unpublished or in preparation are referred to in the text ('unpublished data'), not in the reference list. Articles accepted for publication are cited in the reference list as 'in press'. In the reference list the names of all authors and, in the case of a multiple-author book, editors are required. Journal titles are abbreviated according to the 'List of Serial Title Word Abbreviations' (International Serials Data System, Paris). First and last page numbers are quoted.

Proofreading

Authors of Regular Papers will receive proofs to check for typesetting/editorial errors. No addition or alteration to the accepted manuscript may be made. Corrections should be communicated as a matter of urgency. Proofs of Rapid Reports will be sent only when specifically requested; corrections must be communicated by fax or telephone.

This version of 'Information for Contributors' is condensed from the 1991 Edition. The 1991 Edition is also available as a booklet, free of charge, from the BBA Editorial Secretariat, P.O. Box 1345, 1000 BH Amsterdam, The Netherlands.